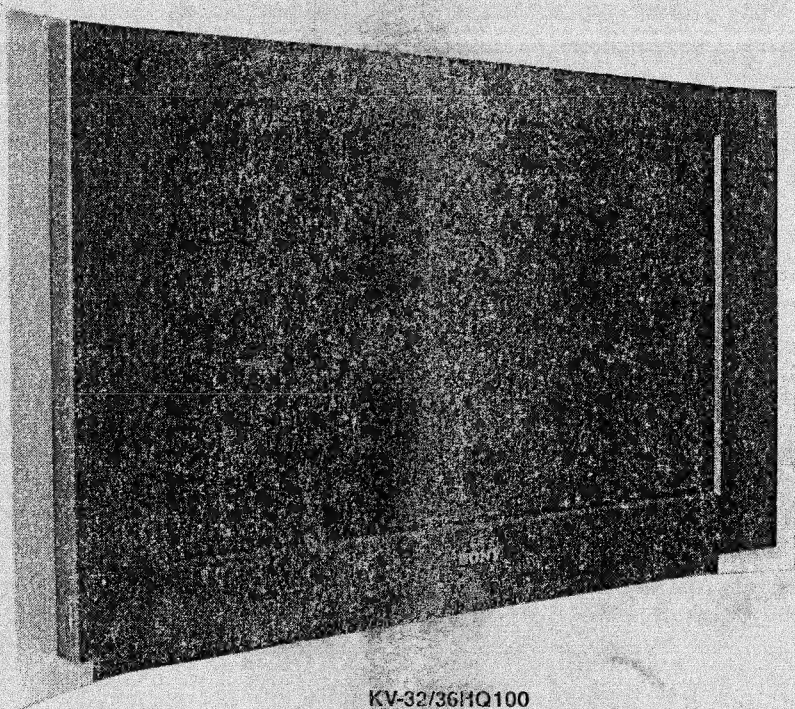


SERVICE MANUAL

AE-7A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-32HQ100B	RM-940	FR	SCC-R12B-A	KV-36HQ100B	RM-940	FR	SCC-R12A-A
KV-32HQ100E	RM-940	ESP	SCC-R13A-A	KV-36HQ100E	RM-940	ESP	SCC-R13B-A
KV-32HQ100K	RM-940	OIRT	SCC-R11B-A	KV-36HQ100K	RM-940	OIRT	SCC-R11A-A

FD Trinitron



KV-32/36HQ100



RM-940

TRINITRON[®] COLOR TV
SONY[®]

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A

LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY.

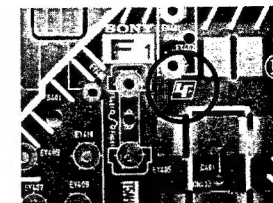
CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.



example 1



example 2



Table 1

Board	Function
F	AC Switch, SIRCS Rx, LED
H	Front AV & Headphone

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

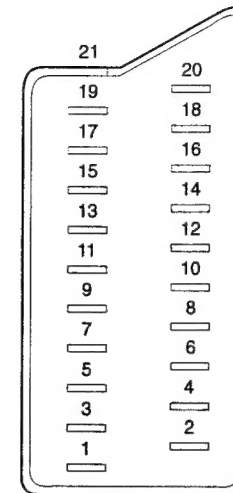
ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)
K	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E02-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S05, S1-S20 HYPER : S21-S41	PAL, SECAM NTSC3.58/4.43 (VIDEO IN)

Picture Tube	Super Fine Pitch FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally) KV-32HQ100 Approx 92 cm (36 inches) (Approx 88 cm picture measured diagonally) KV-36HQ100	Sound Output	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Subwoofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		General Specifications	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
2: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Consumption	Approx 160W (KV-32HQ100) Approx 160W (KV-36HQ100)
3: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (selectable)	Dimensions	Approx 1015x 575 x 590mm (KV-32HQ100) Approx 1100x 625 x 620mm (KV-36HQ100)
4: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for S Video.	Weight	Approx 68kg (KV-32HQ100) Approx 78kg (KV-36HQ100)
Phono Jacks	Output Connectors variable for Audio Signals	Supplied Accessories	RM-940 Remote Commander IEC designated AA battery (2)
PCMCIA Socket	Conditional Access Module	Other Features	100 Hz, DCF, DNR, Auto Noise Reduction, PAP, Picture & Text, Picture Freeze, DQP & DF, Virtual Dolby, BBE, EPG
Input/Output Terminals [SIDE]		Remote control system : Infrared control	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
5: Audio inputs	phono jacks		
5: Video inputs	phono jacks		
5: S Video input	4 pin DIN		

Design and specifications are subject to change without notice.

Model Name	KV-32HQ100B	KV-32HQ100E	KV-32HQ100K
Item	KV-36HQ100B	KV-36HQ100E	KV-36HQ100K
Pal Comb	OFF	OFF	OFF
PIP	OFF	OFF	OFF
RGB Priority	ON	ON	ON
Woofer Box	ON	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Scart 3	ON	ON	ON
Scart 4	ON	ON	ON
Side in (5)	ON	ON	ON
Projector	OFF	OFF	OFF
Norm B/G	ON	ON	ON
Norm I	ON	OFF	OFF
Norm D/K	ON	ON	ON
Norm AUS	OFF	OFF	OFF
Norm L	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	ON	ON

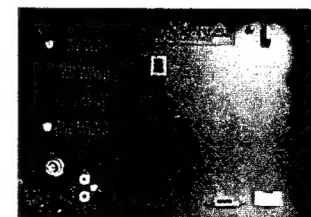
21 pin connector



Pin No	1	2	3	4	Signal	Signal level
1	○	○	○	●	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	●	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	○	Ground (audio)	
5	○	○	○	○	Ground (blue)	
6	○	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	○	○	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	○	Ground (green)	
10	○	○	○	○	Open	
11	○	○	○	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	○	Open	
13	○	○	○	○	Ground (red)	
14	○	○	○	○	Ground (blanking)	
15	○	○	○	●	Red input	0.7 +/- 3dB, 75 ohms, positive
16	○	○	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
17	○	○	○	○	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
18	○	○	○	○	Ground (video output)	
19	○	○	○	○	Ground (video input)	
20	○	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	○	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	○	○	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	○	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.

CUSTOMER SERVICE MENU

The Customer Service menu is provided in order to assist fault diagnosis when the customer reports a problem. The menu can be invoked by the customer on request from the service technician or dealer during a telephone conversation. The customer is then able to provide information regarding the current status of the set. The information gained can then help to increase the number of problems that are solved on the first call out by the service engineer and also reduce the amount of "No problem found" cases. The Customer Service Menu will be read only, preventing the customer from modifying the state of the TV at this time.

1. Entering the Customer Service Menu

The customer service menu can be entered by pressing and holding the Menu key on the Commander while pressing the volume minus local key on the TV.

2. Description of Information available

The following information is available from the Customer Service Menu:

Customer Service Menu		
1	Model	32HQ100
2	Chassis	AE7A
3	M2 SW Version	RELEASE_M2_V040
4	MIPS SW Version	0.00/0
5	TM SW Version	0.00/0
6	BTM SW Version	0.06/0
7	Picture Mode	Unavailable
8	Contrast Level	53
9	Colour Level	31
Next Page: Previous Page: Page 1/4		

Customer Service Menu		
10	Brightness Level	18
11	Sharpness Level	31
12	Noise Reduction	Auto
13	Auto Format	On
14	Colour Tone	Normal
15	I-Clear	On
16	I-Black	Off
17	Format Correction	On
18	Sound Effect	Personal
Next Page: Previous Page: Page 2/4		

Customer Service Menu		
19	Audio Type	Stereo
20	Speaker Volume	0
21	Headphone Volume	12
22	Speaker Balance	-26
23	AFT	Off
24	Analogue Frequency	679250000
25	Digital Frequency (Hz)	Unavailable
26	TV System	I
27	Colour System	PAL
Next Page: Previous Page: Page 3/4		

Customer Service Menu		
28	Error 1	No Error
29	Error 2	No Error
30	Error 3	No Error
31	Error 4	No Error
32	Error 5	No Error
Next Page: Previous Page: Page 4/4		

AE-7A SELF DIAGNOSTIC SOFTWARE

Error diagnostics are used to diagnose if parts of the chassis are faulty. Some errors can be safety critical. In this case the TV set is put into standby.

An error is communicated by:

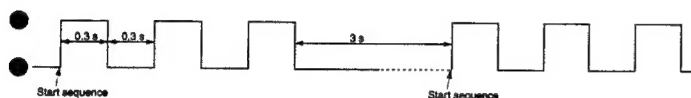
- Flashing the LED red at the front of the TV
- Via the error monitor service menu
- Via the Customer Service Menu (CSM)
- Via an external error reader connected to the service connector

1. LED Errors

The most important errors are signalled via this method.

This is also the only way that safety critical errors can be communicated since the TV will be in standby.

The LED sequence below is an example of Error Code 3. An error is determined by the number of short red flashes of the LED in between a longer solid green LED indication.



The following table displays the supported error codes.

LED ERROR CODE	ERROR DESCRIPTION	PRIORITY
01	Not used for error notification as it is already used for SIRCS acknowledge	Highest
02	OCP (Over Current Protection)	
03	OVP (Over Voltage Protection)	
04	Vertical Protection	
05	Unstable AKB(check starts after 30s,disabled in Production Mode)	
06	Horizontal Protection	
07	AUP (Speaker Protection)	
08	I2C Viper Bus 0 Error	
09	I2C Viper Bus 1 Error	
10	I2C M2 Bus 0 Error	
11	I2C M2 Bus 1 Error	
12	M2 NVM Error	
13	Viper NVM Error	
14	Viper Flash Memory Error	
15	N Board Error	
16	A Board Error	
17	B Board Error	
18	J Board Error	
19	A1 Board Error (CXD2099 - Common Interface)	
20	Backend (CXA2170)	
21	Analogue Colour Decoder (CXA2163)	
22	Main Digital Colour Decoder (SAA7118)	
23	Sound Processor (MSP3411G)	Lowest

LED code 1 has the highest priority.

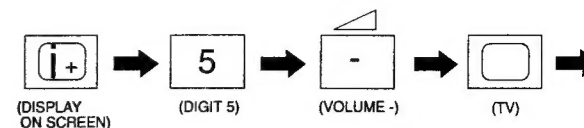
Errors found corresponding to LED error codes 2-4 will put the TV into standby under all conditions.

However, an error corresponding to LED error code 5 (Unstable AKB) will only put the TV into standby in service mode – the LED will flash in production mode without the TV going into standby.

2. Error Monitor Menu

The error monitor is displayed by:

- Entering TT command TT99. or
- Executing the following key sequence when the TV set is in standby:



The error monitor displays the following information:

- The last 5 errors that are stored in flash
- The current error
- The operating time of the TV set

Error detection can also be enabled or disabled from this menu.

Error Monitor

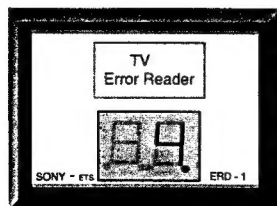
Error Detection	On
Error 1	No Error
Error 2	No Error
Error 3	No Error
Error 4	No Error
Error 5	No Error
Operating Time	
Hours	000013
Mins	30
Up: [Up Arrow] Down: [Down Arrow] Back: [Back Arrow] Edit: [Edit Arrow]	Page 1/1

The following error messages are displayed in the error monitor. The error code is displayed in the external error reader.

Error Code	Error Message
000h	No Error Occured
001h	Bus Error, I2C0 M2
002h	Bus Error, I2C1 M2
003h	Bus Error, I2C0 Viper
004h	Bus Error, I2C1 Viper
100h	N-Board
101h	N-B. SAA7118, Main Col Dec
102h	N-B. SAA7118, Sub Col Dec
103h	N-B. PNX8510, Anabel
104h	N-B. Viper EEPROM
105h	N-B. ME ASIC
106h	N-B. ICIB ASIC
107h	N-B. PCF8574, Port Exp
108h	N-B. ST24C32, M2 NVM
200h	A-Board
201h	A-B. TU1100, Main ana. Tuner
202h	A-B. TU1100, Main ana. IF
203h	A-B. TU1200, Sub ana. Tuner
204h	A-B. TU1200, Sub ana. IF
205h	A-B. CXA2170, Backend
206h	A-B. CXA8070, Dyn. Conv.
207h	A-B. MB88141, Defl. DAC
208h	A-B. CXA2171 Video Switch
209h	A-B. CXA1875, Port Exp.
20Ah	A-B. MSP3411G, Sound Proc.
20Bh	A-B. PFC8593, RTC
20Ch	A-B. TU4100, Dig Tuner PLL
20Dh	A-B. TU4100, Dig COFDM
20Eh	A-B. PCF8574, Port Exp
300h	B-Board
301h	B-B. CXA2163, Ana Col Dec
302h	B-B. CXD3084, 3D Comb
400h	J-Board
401h	J4-B. CXA1855, Main AV Switch
402h	J4-B. CXA2149, Sub AV Switch
500h	F-Board / CXD2088 AV Link
600h	A1-Board / CXD2088, Comm Int

3. Error Reader Display

If no menu can be shown, the Error Reader can display the current error. The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the above table.



Due to the limited count of digits the Error Reader displays the message sequentially. The following example shows the definition of this sequence:

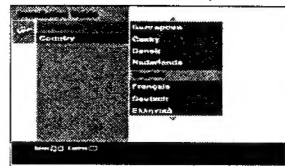
- Start new error sequence [.]
- Display of 1st error part 1 [4 .]
- Display of 1st error part 2 [0 1 .] Error Code = 401h
- Display of 2nd error part 1 [6 .]
- Display of 2nd error part 2 [0 1 .] Error Code = 601h

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

5 Automatically tuning the TV

- When you switch on the TV for the first time, the Sony logo appears on the TV screen followed by the 'Memory Stick' logo, then the Language/Country menu with the word 'English' highlighted. Press the \blacktriangle or \blacktriangledown buttons on the remote control to choose the language you require then press the OK button to confirm.
- The word Country is now highlighted. Press the \blacktriangle or \blacktriangledown buttons to choose the country in which you are using the TV. It is important to select the correct country to ensure correct Teletext displays. Press the OK button to confirm your choice.

Language/Country menu



The picture rotation prompt appears. Sometimes the Earth's natural magnetism can cause the screen to look tilted.

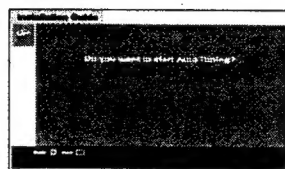
- If no correction is required, press the \blacktriangle button.
- If some correction is required, press the OK button. Press the \blacktriangle or \blacktriangledown button to rotate the picture over a range of -5 to +5. Press the OK button to store.

The picture centering prompt appears (KV-36HQ100 model only). This allows you to adjust the vertical position of the display if it is not centralised.

- If no correction is required, press the \blacktriangle button.
- If some correction is required, press the \blacktriangle or \blacktriangledown button to set new position. Press the OK button to store.

The autotune prompt screen appears. Press the OK button to select Yes. The autotune procedure begins, tuning all the available channels. A display then appears on the TV screen to inform you of the tuning progress.

Autotune prompt



If no channels are found, a display appears on screen asking you to confirm your aerial is connected. Check the aerial has been connected correctly then press the OK button to repeat the tuning process.

Once all signals have been captured and stored, the TV returns to normal operation and displays the analogue programme captured on programme number 1.

- To view programmes, press the PROG+/- button or the numbered buttons on the remote control.

6 Finding your video channel

If you connected a VCR to your TV when following the 'Connecting an aerial and a VCR to the TV' instructions, you now need to find your video channel.

- Press the PROG+/- button on the remote control until the picture from the pre-recorded tape appears on screen.

Notes:

If you wish to move your video channel to a different programme number, refer to 'Programme List Edit' on page 20.

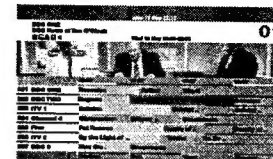
If you have connected your VCR using a scart lead, press the \square/\boxplus button repeatedly on the remote control until the picture from the pre-recorded tape appears on the TV screen.

NexTVView

The NexTVView menu provides a quick and easy way to:-
a) View a complete list of the programmes available.
b) View a list relating to a category of programme, e.g. Sports or Movies.
c) Set a programme to be recorded.

- Press the \square button to display the NexTVView screen. This screen consists of an event information area, a 2 hour timer bar (divided into 30 minute intervals) and a 7 channel programme list covering the 2 hour period.
- Press the \blacktriangle or \blacktriangledown buttons to move the cursor bar up or down the programme list and the \blacktriangle or \blacktriangledown buttons to move left and right. If you press the \blacktriangle button once more after highlighting the last programme on the right, the programmes scheduled for the next 2 hour period are displayed. As each programme is highlighted, a brief description of the programme appears in the event information area at the top of the screen. If you do not wish to select a programme from the 7 channels listed, press the GREEN button to display the next group of channels or the RED button to display the previous group of channels (if more than 7 channels are available).
- When the programme you want to view is highlighted, press the OK button to exit the NexTVView menu and view the programme.

NexTVView menu



Selecting a category of programme

The Category list allows you to search for programmes quickly by dividing the channels into different categories. For example, if you select 'News' from the Category list, then only programmes related to News will be shown in the NexTVView menu.

- With the NexTVView menu on screen, press the BLUE button to display the Category display. This display contains icons representing categories such as sport and news.
- Press the \blacktriangle , \blacktriangle , \blacktriangle or \blacktriangle buttons to highlight the category icon you want, then press the OK button. The NexTVView programme list will now only contain programmes related to the category type selected.

The category types are as follows:

Icon	Category
	Displays all programme types
	Displays programmes you have stored as favourites
	Displays childrens programmes
	Displays all entertainment programmes
	Displays all movie programmes
	Displays all sports programmes
	Displays all news programmes
	Displays all music programmes
	Displays all arts programmes

- Press the \blacktriangle , \blacktriangle , \blacktriangle or \blacktriangle buttons to highlight the programme you wish to view from the new list, then press the OK button to view.

Note:

If you choose a category other than 'All Programmes' or 'Favourites', it will not be stored when the TV is switched off, and will have to be selected again when the TV is next turned on.

Category list



NextView

Selecting a programme for recording or timed display

With the NextView menu displayed press the \uparrow , \downarrow , \leftarrow and \rightarrow buttons to highlight a future programme, then press the YELLOW button to display the 'Timer' pop-up menu. This option allows you to choose from a) Timer REC, b) Wake up or c) Manual timer.

a) Record

Highlight 'Timer REC' and press the OK button to automatically set your VCR to record the selected programme.

Notes:

This option only works if your VCR has SMARTLINK capability and it is connected to the AV3 SMARTLINK VCR, a message will tell you to set the timer recording function of your VCR so that it switches on and off to correspond with the programme you have stored for recording.

When a programme has been set for recording, a solid red bar appears under the timer bar in the menu, and the record symbol RE appears in the display. The coloured bar shows the time allocated for recording and reminds you that you are unable to record other programmes during that time period.

Once a recording has begun you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled.

b) Reminder

Highlight 'Reminder' and press OK if you wish the future programme you selected to automatically appear on screen when transmission starts. When you use this option a solid green bar appears under the timer bar in the menu and the timer symbol O appears in the display. This coloured bar indicates that a 'Reminder' request has been activated. If you are watching another programme just before the transmission is due to begin, the TV will automatically switch to the 'Reminder' programme.

Note:

If you have placed the TV into standby, it will automatically turn itself on when the 'Reminder' programme is about to start. If the TV receives no command during the 'Reminder' programme, it will return to the standby mode.

c) Manual

Highlight 'Manual' and press OK if you wish the TV to output a channel to your VCR for recording when the transmission begins. The Manual Timer display appears.

Press the \uparrow or \downarrow button to set the day of recording, then press the \rightarrow button to move to the start time. Repeat this procedure to set the start and stop times and the channel number, then press the OK button to store and return to the NextView menu. Press the RE button to remove the NextView menu. Unless you have a SMARTLINK VCR, you must now set the timer recording function of your VCR to switch on and off to correspond with the programme you have stored for recording.

Notes on recording:

The 'Manual' feature only works if you have connected your VCR to the AV3 socket O-3/O-3 on the rear of the TV. After you have programmed a recording you can put the TV into its standby mode, but do not switch off completely or the recording will be cancelled. If you put the TV into standby mode, the standby indicator on the front of the TV flashes green periodically to remind you a recording has been programmed.

Timer list

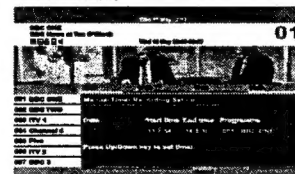
The Timer pop-up menu also has a 'Timer list' option. If you highlight this and press the OK button, a screen is displayed showing all the programmes you have set for recording or wake up. To delete one of these programmes, proceed as follows:

1. Press the \uparrow or \downarrow button to highlight the programme you wish to delete.
2. Press the OK button to confirm deletion.
3. Press RE when you wish to return to normal TV operation.

Timer pop-up display



Manual timer display



Text

Most TV channels provide a text service. The index page (usually page 100) provides information on how to use the service. Please ensure you are receiving a strong signal or some text errors may occur.

Viewing Text

1. Select the TV channel that carries the text service you wish to view.
2. Press the PT button to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the right corner.

Notes:

If you wish to view the Text in full screen mode, press the PT button a second time.

3. Press the numbered buttons to enter a three digit number for the text page you wish to view. Your selected page appears on screen.
4. Enter more 3 digit page numbers as required.
5. Press the \square button on the remote control at any time to exit Text mode.

Text display



How to use Text features

To select the next or preceding page	Press the TV or PA button.
To select a sub page	A text page can consist of several sub pages. In this case an information box is displayed at the bottom of the screen showing the number of sub pages available. Select the sub pages by pressing the \uparrow or \downarrow button.
To keep a page on display	Press the PT button. Press again to cancel.
To use Fastext	Fastext allows you to access pages with one button push. When Fastext is available, four coloured items appear at the bottom of the screen. Press the corresponding coloured button on the remote control to display the page.
To use the Page Catching feature	Select a page that contains several page numbers (e.g. the index page), then press the OK button. Press the \uparrow or \downarrow button to highlight the page number required, then press the OK button again. Your selected page appears on screen.
To use the Reveal function	Press the RE button to reveal hidden information on the page (such as answers to a quiz).

Viewing Top-Text


If transmitted by the broadcasting authorities, Top-Text can be viewed on this TV. When Top-Text is displayed, the screen is divided into two columns, the first column shows 'blocks' of pages and the second shows 'groups' of pages.

1. Press the \uparrow or \downarrow button to highlight the first or second column.
2. Press the \uparrow or \downarrow button to select the relevant 'group' or 'block' of pages.
3. Press the OK button to display the chosen pages.
4. Press the \square button when you wish to exit Top-Text.

Memory Stick


A 'Memory Stick' is a new recording medium with a data capacity that exceeds a floppy disk. It is specially designed for exchanging and sharing digital data among 'Memory Stick' compatible products. Use 'Memory Stick' to display JPEG pictures (DCF version 1.0 format) individually or as a slideshow presentation on the TV screen. Because it is removable, 'Memory Stick' can also be used for external data storage.

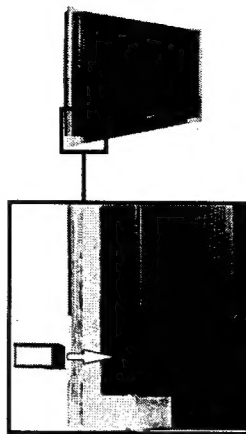
Notes:

*'Memory Stick' and the  logo are trademarks of Sony Corporation.

*DCF (Design rules for Camera File systems) is a standard file name format for digital still cameras, DV camcorders etc. It is supported by Sony and other manufacturers.

Inserting a 'Memory Stick'

Insert a 'Memory Stick' into the front control panel of the TV set until it clicks into the connector. The side showing the  symbol must be facing you and it must be pointing towards the 'Memory Stick' socket. The red light flashes indicating that the 'Memory Stick' contents are being read.

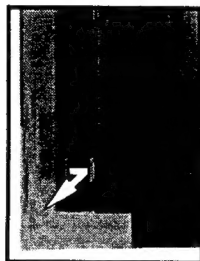


Removing a 'Memory Stick'


Confirm that the red light is off. Do not pull the 'Memory Stick'. You must push the 'Memory Stick' and then release. The 'Memory Stick' will spring out.

Note:










*Data stored on a 'Memory Stick' may become damaged or erased if you remove the 'Memory Stick' when it is reading or writing data.



The 'Memory Stick' Thumbnail menu

Press the  button to display the Thumbnail menu. This screen gives an overview of the 'Memory Stick' content. From this menu you can also choose to see a slide show of the content, change the directory (if the 'Memory Stick' contains more than one directory), and change settings related to the viewing operation.

To view a picture

1. Press , , or  buttons to highlight the picture you wish to view. There may be more pictures available than can be shown on the Thumbnail screen. If so, press the RED button to view the next group of pictures, or the GREEN button to view the previous group.
2. When you have selected the picture you want, press the OK button to display the 'Thumbnail Action List'. The picture you have selected for viewing will be outlined.
3. The option 'Full Screen View' should now be highlighted. Press the OK button to view the selected picture at full size. Whilst the picture is displayed at full size, you can select the next or previous picture for viewing by pressing the  or  buttons.
4. If you wish, you can rotate the picture on view 90 degrees clockwise or anti-clockwise. Press the  or  button to highlight  or  symbol, then press the OK button.
5. To return to the Thumbnail menu, first press the OK button to display the full screen 'Action List'. Make sure 'Exit Full Screen View' is highlighted, then press the OK button once again.




Thumbnail menu



Memory Stick







Slideshow

This feature allows you to display all the 'Memory Stick' pictures as a slideshow presentation on the TV screen.

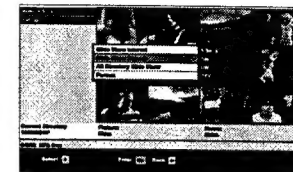
1. With the Thumbnail menu on screen, press the , , or  buttons to highlight 'Slide show' then press the OK button.
2. The slideshow begins. (To change the length of time an image is displayed refer to the 'Setup' section below).
3. Press the OK button anytime during the slideshow to return to the 'Thumbnail' menu.







Setup

This feature allows you to 1) set the length of time for a picture to be displayed during a slideshow, 2) set a slideshow to continuously repeat, 3) display photographs from all directories format the 'Memory Stick'.

1. With the Thumbnail menu on screen, press the , , or  buttons to highlight 'Set-up' then press the OK button to display the Set up menu.
2. Press the  or  button to highlight the option you require. The table below explains each option and its function.
3. Press the  button to return to Thumbnails once all settings are completed.






Set-up menu



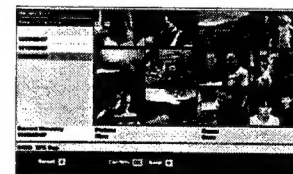
Slide show interval Sets the length of time a picture is displayed during a slideshow.	With 'Slide show interval' highlighted, press the OK button to activate. Press the  or  button to select 5 sec, 10 sec, 1 min, 5 min or 15 min, then press the OK button to store your choice.
Slideshow - Repeat Sets a slideshow to continuously repeat.	With 'Slide show repeat' highlighted, press the OK button to activate. Press the  or  button to select 'On' or 'Off' then press the OK button to confirm.
All directory slide show Displays photographs from all the available directories during the slideshow.	Highlight 'All directory slides show' then press the OK button to activate. Press the  or  button to select 'On' or 'Off' then press the OK button to store your choice.
Format Will delete all information on the 'Memory Stick' and performs a basic format.	Highlight 'Format' then press the OK button to begin formatting. A message display appears asking you to confirm you want to format the 'Memory Stick'. 'Format' will be highlighted. Press the OK button to continue. A display will inform you when format is completed. Press the OK button to return to the Set-up menu.

Changing Directory

This feature allows you to choose the directory that you wish to be displayed in the Thumbnail menu.

1. With the Thumbnail menu on screen, press the , , or  buttons to highlight 'Select Directory' then press the OK button.
2. A directory list appears in the display.
3. Press the  or  buttons to select your desired directory, then press the OK button. The photographs from that directory will now be displayed in the Thumbnail menu.

Directory list



TV menu system

Using the TV menu system

This TV contains a menu system which is based on a series of on screen displays. These displays help you get the most from your TV, from customising the picture and sound to accessing advanced features. Use the following buttons on the remote control to operate the TV menu system:

1. Press the **MENU** button to display the main menu.
2. Use the following buttons to operate the menu:
 - Press the \leftarrow or \rightarrow buttons to highlight the required menu or option.
 - Press the \rightarrow button to enter the required menu or option.
 - Press the \leftarrow button to return to the last menu or option.
 - Press the \leftarrow , \rightarrow , \uparrow or \downarrow buttons to alter the settings of the selected option.
 - Press the **OK** button to confirm and store your selection.
3. Press the **MENU** button to remove the menu from the TV screen.

Picture Adjustment menu

This menu allows you to customise the TV picture settings. Highlight the required option and press \rightarrow to select. The table below explains each option and how to use it.

Picture Mode

This option allows you to select one of four picture modes. Press \leftarrow or \rightarrow to select Live, Personal, Movie or Game. Press **OK** to confirm your choice.

Contrast, Brightness, Colour, Sharpness, Hue

These options allow you to adjust the contrast, brightness, colour and sharpness. Press \leftarrow or \rightarrow to set the levels. Press **OK** to confirm.

Note:

Hue will only be available if an NTSC broadcast is received.

Reset

This option resets all picture settings to the factory preset levels. Press \leftarrow to restore default picture settings.

Note:

This feature is only available when 'Picture Mode' is set to 'Personal'.

Noise Reduction

Sometimes a weak signal can produce a snowy picture (called 'Picture Noise'). This option can help to reduce this effect. Press \leftarrow or \rightarrow to select Off, Low, Mid, High or Auto. Press **OK** to confirm.

Colour Tone

This option allows you to alter the tint of the picture. The settings available are:

Warm: Gives the white colours a red tint.
Normal: Gives the white colours a neutral tint.
Cool: Gives the white colours a blue tint.

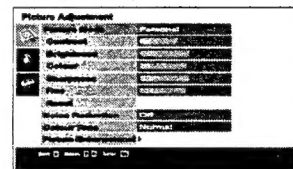
Press \leftarrow or \rightarrow to select Warm, Normal or Cool. Press **OK** to confirm.

Picture Enhancement

With this option you can enhance the sharpness and contrast levels of the TV picture. The settings available are:

i-Clear: Optimizes the sharpness levels of the TV picture. Press \leftarrow or \rightarrow to select Off, Low, Mid or High. Press **OK** to confirm.
i-Black: Optimizes the contrast levels of the TV picture. Press \leftarrow or \rightarrow to select On or Off then press **OK** to confirm your choice.

Picture adjustment menu



TV menu system

Set-up menu

This menu gives you access to more advanced features. The options are:

Language/Country

When you first installed the TV you were asked to select your language and country. The 'Language/Country' option in this 'Set-up' menu allows you to change these settings. With the 'Language/Country' option highlighted, press \rightarrow to enter the 'Language/Country' menu. Press \leftarrow or \rightarrow to select 'Language' or 'Country'. Press \rightarrow to select. Press \leftarrow or \rightarrow to highlight the required setting. Press **OK** to confirm.

Auto Tuning

All the available channels were tuned in when the TV was first installed. This 'Auto Tuning' option allows you to repeat that process (e.g. to re-install the TV at an alternative location or search for new channels that have been launched by broadcasters). With the 'Auto Tuning' option highlighted, press \rightarrow to select. The autotune prompt appears on screen. Press **OK** to start the auto tuning process. When all available channels have been tuned the TV returns to normal operation.

Programme List Edit

This option allows you to change the order in which the channels are stored on the TV and delete unwanted channels. With the 'Programme List Edit' option highlighted, press \rightarrow to enter the 'Programme List Edit' menu. Press \leftarrow or \rightarrow to highlight the channel you wish to move to a new position, then press \rightarrow to select (press the **OK** button if you wish to delete the channel). Press \leftarrow or \rightarrow to highlight the new position for your channel, then press **OK** button. Your chosen channel has now moved to the new position. Repeat to move other channels if required.

Manual Tuning

This option allows you to manually tune in channels. With the 'Manual Tuning' option highlighted, press \rightarrow to enter the Manual Tuning menu. Press \leftarrow or \rightarrow to highlight the programme number you wish to tune. Press **OK** to confirm, and display the setting screen. Press \leftarrow or \rightarrow to highlight System, then press the \rightarrow button. Press \leftarrow or \rightarrow to set the system required. Choose from system B/G or D/K. Press the \rightarrow button. Press \leftarrow or \rightarrow to highlight Channel and press the \rightarrow button. Press \leftarrow or \rightarrow to choose 'C' for terrestrial or 'S' for cable channels. Press the \rightarrow button. The channel number is highlighted.

(a) If you know the channel number you want: Press the numbered buttons on the remote control to enter the channel number. Press **OK** to store.

(b) If you do not know the channel number: Press \leftarrow or \rightarrow to **SEARCH**.

The TV set automatically searches for the next available TV broadcast channel or the VCR test signal. When a channel has been found press either **OK** to store or \rightarrow or \rightarrow to continue searching.

Naming a channel

The 'Label' option allows you to give the channel a personalised name.

a) Press \leftarrow or \rightarrow to highlight 'Label' then press the \rightarrow button to enter.
b) Press the \leftarrow or \rightarrow button to select the first letter or number of your choice. Press \rightarrow button to confirm. Select remaining characters in this way, then press the **OK** button to store.

AFT (Automatic Fine Tune)

This option allows you to fine tune the channel for optimum result.

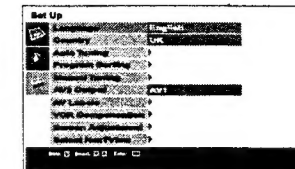
a) Press the \leftarrow or \rightarrow button to highlight 'AFT' then press the \rightarrow button to enter.
b) Press the \leftarrow or \rightarrow button to adjust the tuning frequency over a range of -15 to +15. Press the **OK** button to store.

Decoder

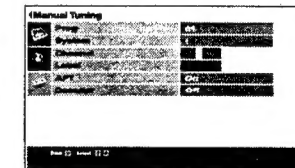
This option allows you to set a channel for viewing scrambled signal (e.g. from a pay TV decoder).

a) Press \leftarrow or \rightarrow to highlight 'Decoder' then press the \rightarrow button to enter.
b) Press \leftarrow or \rightarrow to select AV1 or AV3 depending on which socket your scrambled signal is connected to. Press the **OK** button to store.

Set-up menu




Manual tuning setting screen








Additional information

Teaching the remote control*

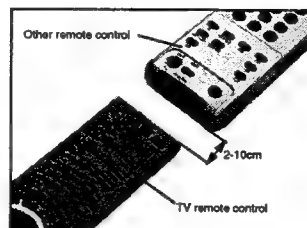
To eliminate the amount of remote controls you need, this remote control has a learning feature. Once set up as explained below, it can be used in place of your other remote controls.


1. Press and hold the  button for approximately six seconds, until the 'AUX' light flashes.
2. Press the button on which you wish to store a learned function on. The VCR, TV, DVD and AUX lights flash in order.

The following buttons can be used to store learned functions:




VIDEO  button	Numbered buttons
    buttons	OK button
Coloured buttons	Menu button
Prog +/- buttons	

*The functions learned may be lost if weak batteries are not replaced immediately.







3. Position the other remote control as shown. Press the button that you wish to teach your TV remote control. The VCR, TV, DVD and AUX lights illuminate at the same time when a function has been learned and stored.
4. Repeat steps 2 and 3 to learn other functions.
5. Press the  button to finish.

Erasing the last learned function











1. Press and hold the  button for approximately six seconds, until the 'AUX' light flashes.
2. Press the  button to erase the last learned function.
3. Press the  button to return to normal operation.

Erasing all the learned functions

1. Press and hold the  button for approximately six seconds, until the 'AUX' light flashes.
2. Press the  and  buttons to erase all learned functions.
3. Press the  button to return to normal operation.

Additional information








Specifications

TV System	B/G/H, DK, I, L
Colour System	PAL/SECAM NTSC 3.58, 4.43 (only Video In)
Channel Coverage	VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 HYPER: S21-S41 D/K: R1-R12, R21-R69
Picture Tube	KV-32HQ100K: Super Fine Pitch FD Trinitron Approx. 82cm KV-36HQ100K: Super Fine Pitch FD Trinitron Approx. 91cm
Sound Output	Left/Right: 2x20W (music power), 2x10W (RMS) Subwoofer: 1x30W (music power), 1x15W (RMS)
Power Consumption	KV-32HQ100K: Approx. 180W KV-36HQ100K: Approx. 160W
Dimensions (w x h x d)	KV-32HQ100K: Approx. 1015 x 575 x 590mm KV-36HQ100K: Approx. 1100 x 625 x 620mm
Weight	KV-32HQ100K: Approx. 68kg KV-36HQ100K: Approx. 78kg
Rear Terminals	<div>  1 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output. </div> <div>  2 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output </div> <div>  3/4 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, selectable audio/video output. </div> <div>  4/5 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input. </div> <div>  RF RF In </div> <div>  6 Audio output - RCA phono jacks </div>
Side Terminals	<div>  5 Video input - phono jack </div> <div>  5 S video input - 4 pin DIN </div> <div>  5 Audio inputs - phono jacks </div> <div>  Headphones jack - minijack stereo </div>
Accessories Supplied	RM-940 remote control (1) IEC designated size AA battery (2)

Design and specification are subject to change without notice

Additional information

Troubleshooting

Problem	Possible causes	Solutions
No picture, no sound.	<ul style="list-style-type: none"> Power off TV in standby. Aerial disconnected. 	<ul style="list-style-type: none"> Plug in the TV. Press the  button on the front of the TV. If the indicator is on press the  button on the remote control. Check aerial connection
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> Picture preset level adjustment 	<ul style="list-style-type: none"> Select 'Picture Adjustment' menu then adjust the brightness, picture and colour levels.
Some channels are blank.	<ul style="list-style-type: none"> Scrambled or subscription-only channel. Programme used only for data (no picture or sound). Programme not being transmitted. 	<ul style="list-style-type: none"> Subscribe to pay-per-view broadcaster. See 'Skipping a programme' section. See 'Re-arranging your channels' section.
Standby indicator flashing.	<ul style="list-style-type: none"> Fault (irregular flash) 	<ul style="list-style-type: none"> Do not open the cabinet, refer to qualified personnel. Contact your nearest SONY Service Centre.
Good picture, no sound	<ul style="list-style-type: none"> Volume control. 	<ul style="list-style-type: none"> Press the  + button on the remote control. If  is displayed on the screen, press the  button on the remote control.
No colour on colour programmes	<ul style="list-style-type: none"> Colour level setting. 	<ul style="list-style-type: none"> Select 'Picture Adjustment' menu then adjust the colour setting.
Remote control does not function	<ul style="list-style-type: none"> Batteries low. Wrong mode 	<ul style="list-style-type: none"> Replace batteries. Press the  or  button to check if your remote control is in the correct Mode for the equipment you are trying to control.
Distorted picture when changing programmes or selecting teletext	<ul style="list-style-type: none"> Inputs from external equipment not switched off. 	<ul style="list-style-type: none"> Switch off all additionally connected equipment.

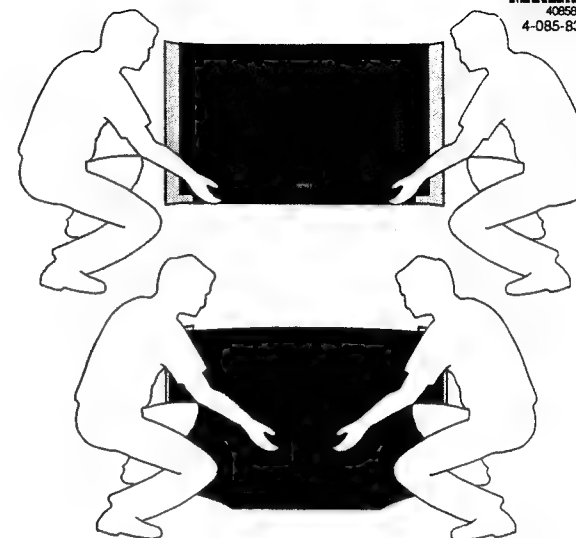
- If you continue to have these problems, have your TV serviced by qualified personnel.
- NEVER open the casing yourself.

Lifting the TV Set

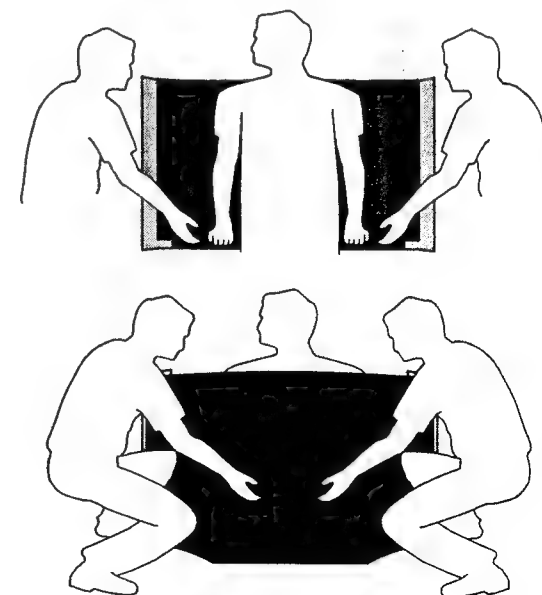


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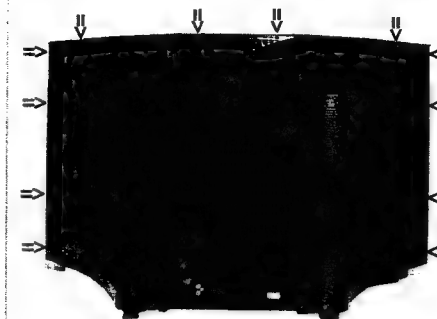
 =KV-32HQ100



 =KV-36HQ100

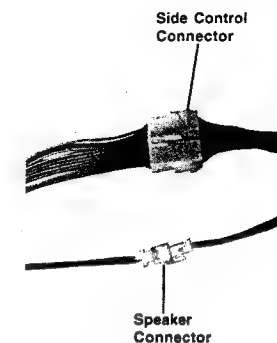


2-1. Rear Cover Removal



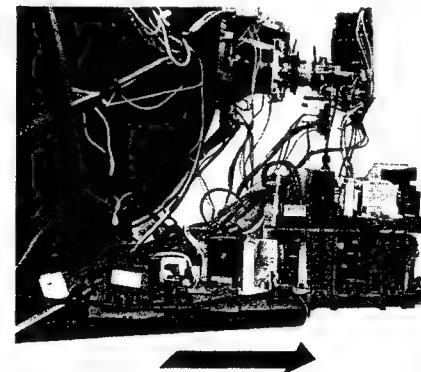
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set. Take care when removing the rear cover not to damage the side control and speaker cables, [disconnect the side control and speaker connectors]. The side control and speaker is fitted inside the rear cover.

2-2. Side Control and Speaker Disconnection

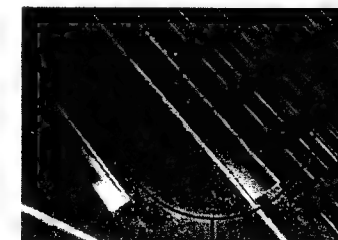


Before completely removing the rear cover disconnect the side control connector and speaker connector which is located on the inside of the set.

2-3. Chassis Removal and Refitting

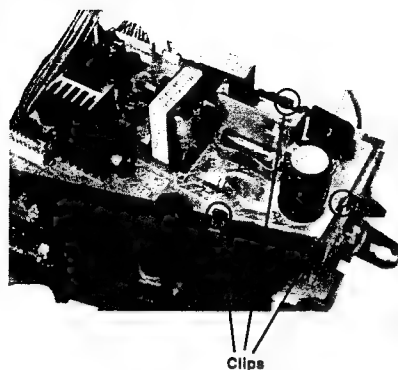


To remove lift the main bracket rear slightly and slide the chassis away from the bezel. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



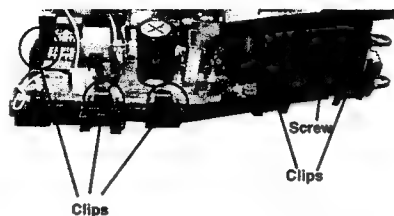
When refitting the chassis ensure that the main bracket is located in the bezel guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. G1 Board Removal



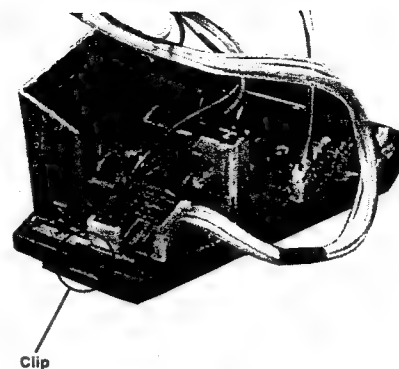
To remove the G1 board release the three clips circled and ease the board gently away from the support bracket.

2-5. G Board Removal



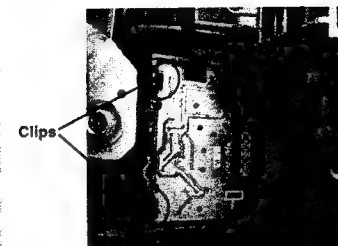
To remove the G Board first remove the G1 bracket by removing the screw circled and releasing the four clips (two on each side of the bracket). The G Board can then be removed by releasing the clips circled and easing the board gently away from the support bracket.

2-8. SF Board Removal



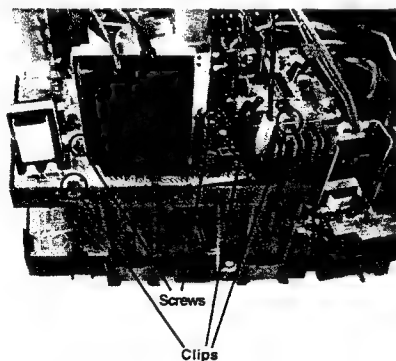
To remove the SF board release the clip circled and ease the board gently away from the support bracket.

2-9. MS3 Board Removal



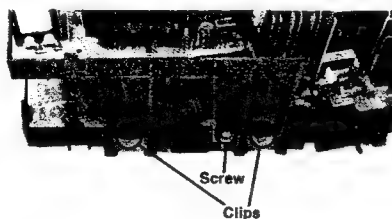
To remove the MS3 board release the two clips circled and ease the board gently away from the support bracket.

2-6. D2 Board Removal



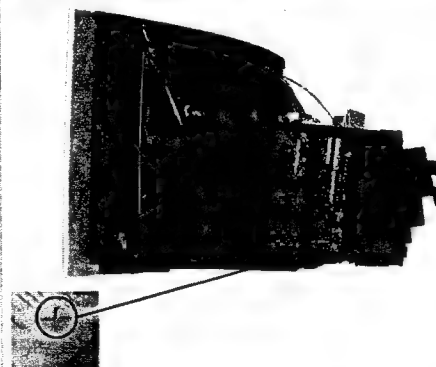
To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D1 Board Removal



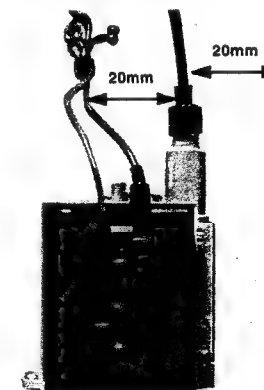
To remove the D1 board first remove the D2 bracket by removing the two screws (one on each side of the bracket) and releasing the four clips (two on each side of the bracket). The D1 board can then be removed using the same method as the G board.

2-10. Service Position



To place the chassis in the service position, remove the SF and MS3 boards from their brackets (see 2-8 and 2-9.), remove the G1 and D2 brackets and position on the side of the main bracket as shown above. Insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 21. [Removal and Replacement of the main bracket bottom plates].

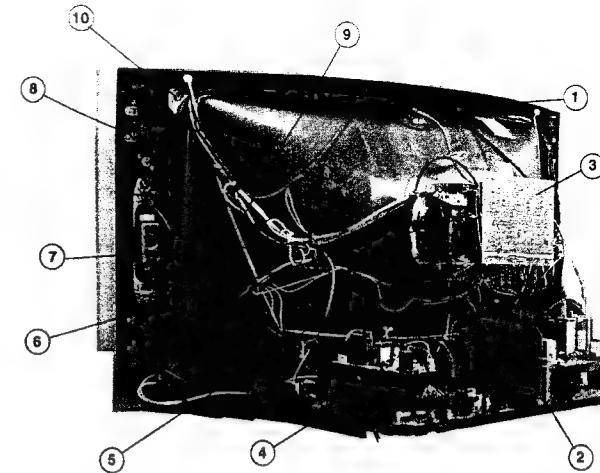
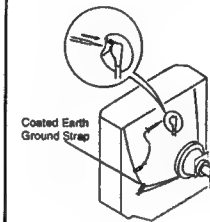
2-11. Wire Dressing



Ensure that wires do not touch heatsinks and high temperature hotspots. All wires must be kept at a minimum distance of 20mm away from the EHT lead

**WARNING:
BEFORE REMOVING
THE ANODE CAP**

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C2 Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tensioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
[Take care not to handle the CRT by the neck.]

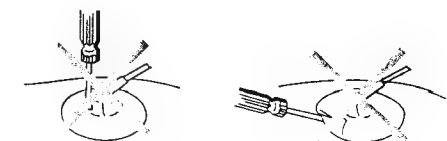
Removal of the Anode-Cap

REMOVAL PROCEDURE.

-
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ③
 - ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤
 - ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⑥
- Anode button

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

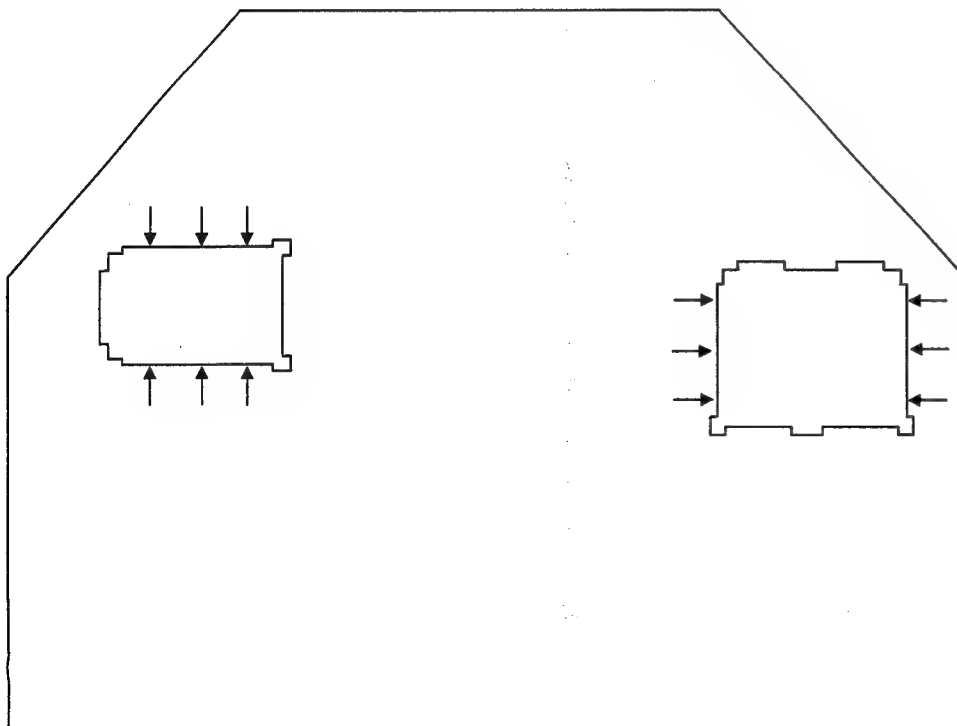


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 2 plates fitted to the main bracket.
Only remove the necessary plate to gain access to the printed wiring board.

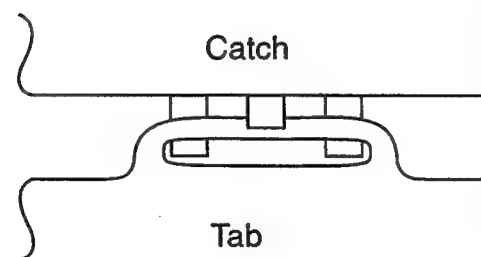


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast normal

Brightness normal

Carry out the adjustments in the following order:

- 3-1. Beam Landing and Geometry.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note: Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.
5. TT Commander

3-1. Beam Landing

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

- Input a crosshatch signal from the pattern generator.
- Set the Picture control to minimum and confirm that the Brightness control is set to normal.
- Position the neck assembly as indicated in Fig.3-3.
- Loosen the deflection yoke fixing screw.
- Move the deflection yoke as far forward as is possible.
- KV-36HQ100**
Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-1]
- KV-32HQ100**
Enter the Deflection Service Menu as shown on page 30 and adjust VPIN_32.
- Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet (KV-36HQ100)

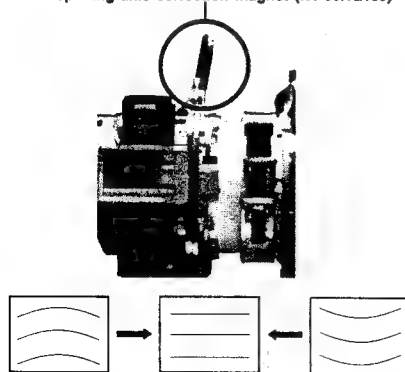


Fig.3-2

Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing and Geometry

Note: Before carrying out the following adjustments adjust the magnets as indicated on page 23 [See Fig.3-4].

- Input a crosshatch signal from the signal generator.
- Rough-adjust the focus and horizontal convergence.
- Switch from the crosshatch pattern to an all-red pattern.
- Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
- Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
- Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position].
- Position the deflection yoke between the two marks indicated above.
- Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
- When the position of the deflection yoke has been determined, fasten it with its fixing screw.
- Once dy rotation and swing left and right for h linearity is ok on cross hatch pattern, insert dy wedges. [See Fig.3-6].
- Switch the pattern generator to green then blue and confirm the purity.
- If the beam does not land correctly in all the corners of the screen, use SFC correction. (See Page 23)

Fig.3-3

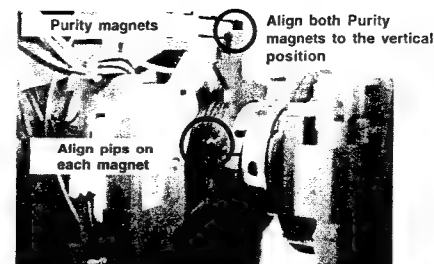
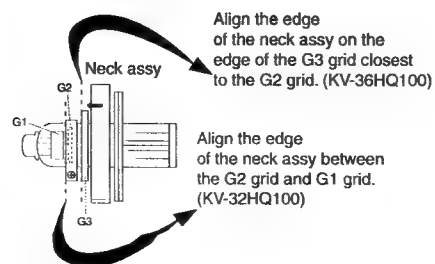


Fig.3-4

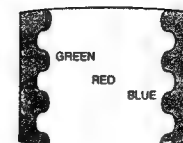


Fig.3-5

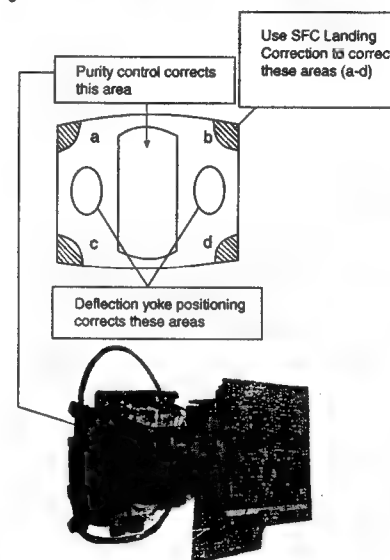
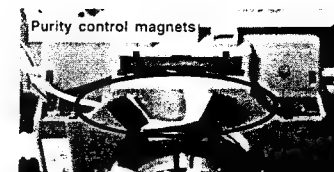


Fig.3-6

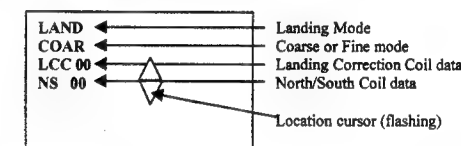


Note: A new DY spacer was used during manufacture of KV-36HQ100. If the DY is changed then the spacers on the CRT funnel can be used. If the CRT is changed then use standard DY spacer.



3-2. SFC Landing Correction

- Use TT Commander to Obtain TT55
- SFC Menu & Crosshatch pattern will appear. Press button '2' to toggle to Landing mode. Menu will appear as;



- To adjust Landing, Choose Coarse or Fine mode by toggling button '9'.

COARSE MODE ADJUSTABLE LOCATION



*In Coarse Mode, all data will change equally for that particular side.

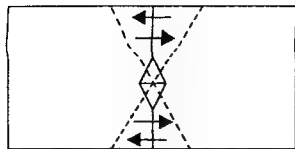
FINE MODE ADJUSTABLE LOCATION



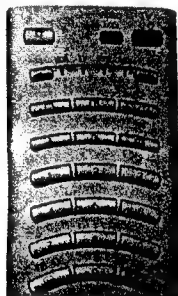
*In Fine Mode, data will change for that position only.

- Use commander arrows to move flashing location cursor to required position for adjustment.
- Choose required location by using arrow up, down, right, left on commander to move location cursor. (Cursor will start in centre position)
- Edge locations only will adjust LCC coil data.
- Centre point will adjust NS coil data. (To obtain centre position, choose COARSE mode, move cursor to +ve or -ve x-axis and press left or right once).

N.S.Coil Effect



- Once location is chosen, press 'OK' once, colour raster will appear, flashing cursor will disappear. Press Text colour keys (R,G,B,(Y=White)) to choose preferred raster colour. Use commander arrow keys left & right to change LCC or NS coil data in required mode. Once mis-landing has disappeared, press 'OK' once again. This will bring back SFC cross hatch pattern.
- If required, re-select another location for adjustment and repeat steps 5) to 8).
- Once all adjustment is complete, press 'Mute' key to Exit SFC Test mode.



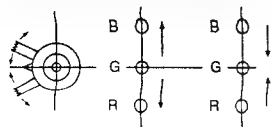
- Change Adjust Point
- Toggle Landing \leftrightarrow Convergence
- Reverse the adjustment point
- Video 5 \leftrightarrow Video 4
- Coarse \leftrightarrow Fine
- Exit SFC Test Mode

3-3. Convergence

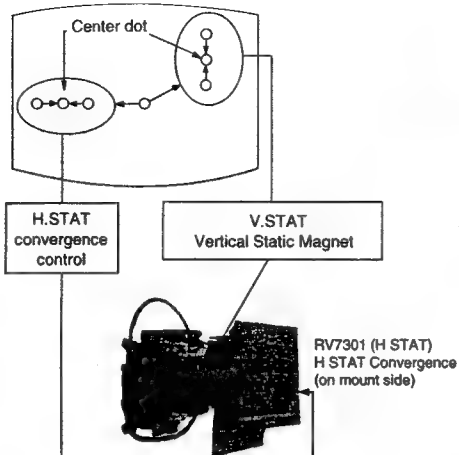
Screen centre convergence [Static convergence]

- Input a dot pattern signal from the pattern generator.
- Normalize the picture setting.
- [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

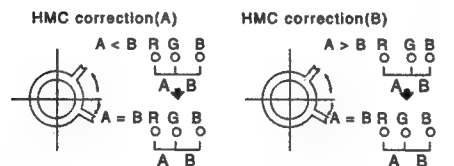
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



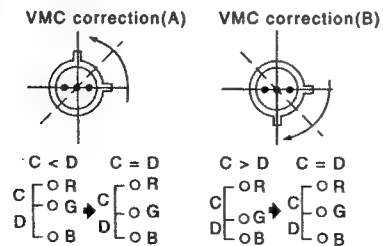
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.



- Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.
- HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



- VMC correction by BMC [Hexapole] magnet and movement of the electron beam.



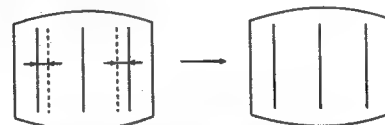
- (KV-36HQ100)

When centre convergence adjustment is correct, use SFC Convergence Correction for other areas of the screen.
(See page 25).

TLH Adjustment (KV-32HQ100)



TLH correction can be performed by adding a TLH correction assembly to the Deflection yoke.



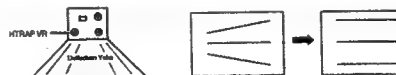
YCH Adjustment (KV-32HQ100)



TLV Adjustment (KV-32HQ100)



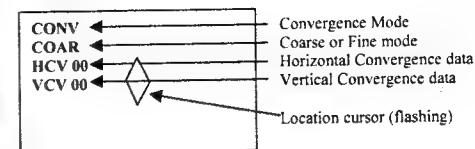
H-TRAP Adjustment (KV-32HQ100)



The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

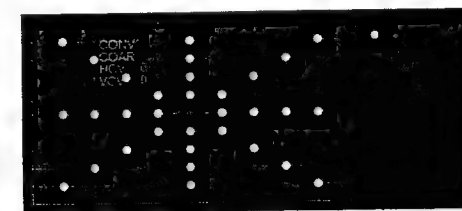
3-4. SFC Convergence Correction (KV-36HQ100)

- Use TT Commander to Obtain TT55
- SFC Menu & Crosshatch pattern will appear. Press button '2' to toggle to Convergence mode. Menu will appear as:



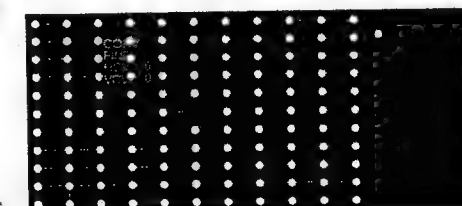
- To adjust Convergence, choose Coarse or Fine mode by toggling button '9'.

COARSE MODE ADJUSTABLE LOCATION



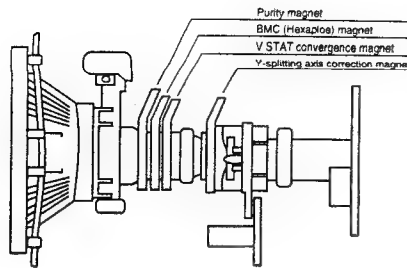
*In Coarse Mode, all data will change equally for that particular column area.

FINE MODE ADJUSTABLE LOCATION

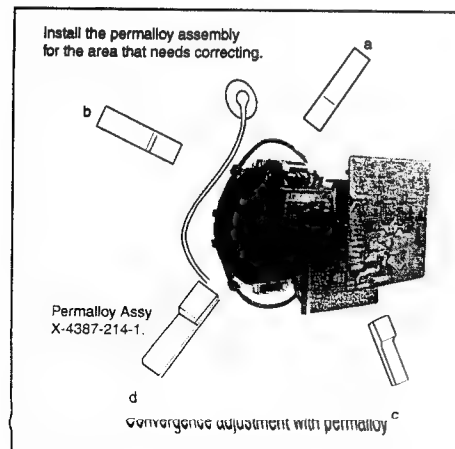
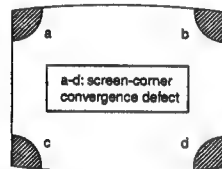


*In Fine Mode, data will change for that position only.

- Use commander arrows to move flashing location cursor to required position for adjustment.
- Choose required location by using arrow up, down, right, left on commander to move location cursor. (Cursor will start in centre position)
- Once location is chosen, press 'OK' once, cross hatch pattern will remain and HCV and VCV will be adjustable., location cursor will not flash.
- Toggle commander arrows left and right to adjust HCV, up and down arrows to adjust VCV. Text colour buttons can be pressed to check each colour if necessary. If mis-convergence has disappeared, press 'OK' once more, cursor will start to flash.
- If required, re-select another location for adjustment and repeat steps 5) to 7).
- Once all adjustment is complete, press 'Mute' key to Exit SFC Test mode.



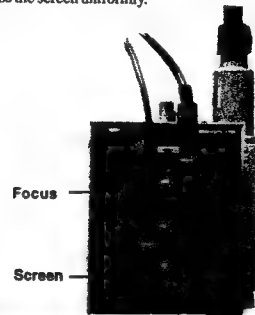
Note : On KV-32HQ100 if you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



3-5. Focus Adjustment

1. Receive a cross hatch pattern from a video generator.
2. Adjust the focus control located on the flyback transformer to the best level at the centre of the screen.
3. Check left and right x-axis vertical line thickness and adjust to make them as thin as possible.
4. Considering x-axis and centre, adjust to make uniform.
5. If no cross hatch signal is possible, follow the next three steps.
6. Receive a television broadcast signal.
7. Normalize the picture setting.
8. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.

Bring only the centre area of the screen into focus, the magenta appearing appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-6. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 169V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 27].
3. Enter into the 'Service Mode' by pressing 'VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Device Register Setting' from the on screen menu display and press 'Right Arrow'.
5. Select 'Backend' from the on screen menu display and press 'Right Arrow'.
6. Set the 'Contrast' to MAX.
7. Set the 'R-Drive' to 45.
8. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
9. Press the 'OK' button to write the data for each item.
10. Set the 'Contrast' to MIN.
11. Set the 'R-Cutoff' to 35.
12. Adjust the 'G-Cutoff', and the 'B-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
13. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied remote Commander RM-940.

Programming the Remote Commander for Operation in Service Mode

1. Press and hold the left Mode Select button until the VCR and DVD LED's flash.
2. Press 99999. The TV LED should light. The remote commander is now set to Service Mode.
3. To return the remote commander to normal operation mode repeat step 1. then press 00000. The TV LED should light. The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the video standby button on the remote commander twice. 'TT' will appear in the upper right corner of the screen. Other status information will also be displayed.
4. Press 'MENU' on the remote commander twice to obtain the following menu on the screen.

AE7 Service Menu

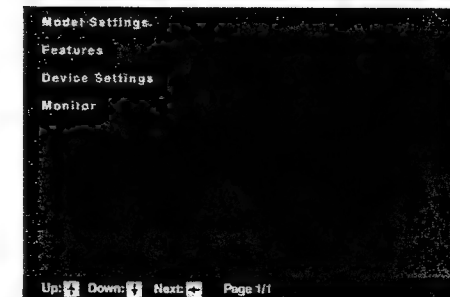


Table 4-1

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.
- Certain menu items are only available in production mode.

Model Settings

'Model Settings' is a sub menu of the 'Service Menu'. This menu stores a list of models that are supported by the chassis. Press the cursor right key to move to the model selection then press the cursor up or down keys to scroll through the models available. Press the OK key to select the model highlighted by the cursor.

The model setting is stored in flash and is used by the software for model dependent features or parameters to be available. The cursor left key will return to 'Service Menu'.

Model Settings

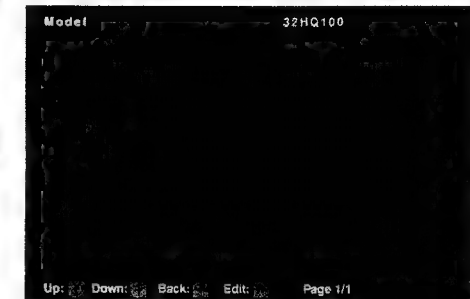


Table 4-2

Features

'Features' is a sub menu of the 'Service Menu'. This menu is used to set up the digital camera and memory stick for those models which have this accessory and functions. Press the cursor right key to move to the selection field then press the cursor up or down keys to scroll to Yes or No. Press the OK key to select the required option. The cursor left key will return to 'Service Menu'.

Features

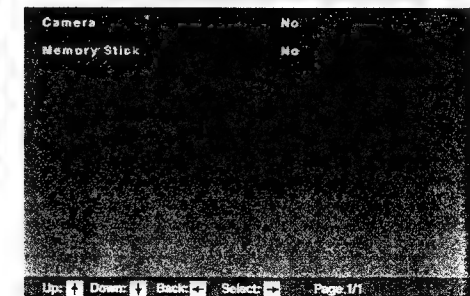


Table 4-3

Device Settings

'Device Settings' is a sub menu of the 'Service Menu'. This menu displays a list of I2C devices that are used in the chassis. Pressing the cursor up & down keys will scroll through the options available.

The cursor left key will return to 'Service Menu'.

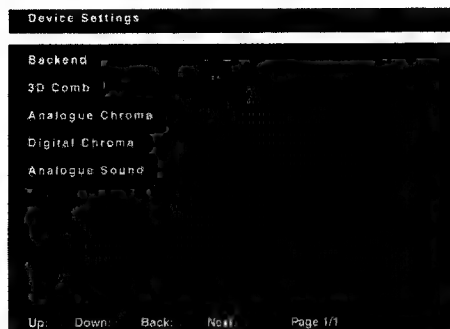
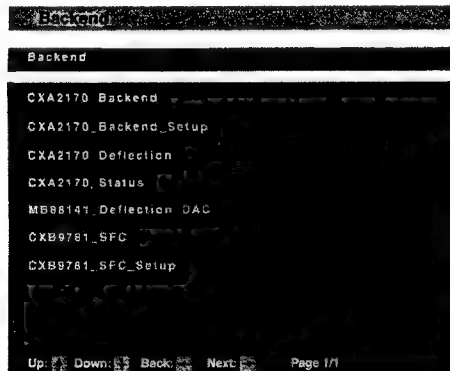


Table 4-4

The following are examples of the menus and submenus within the Device Settings Menu.

**Table.4-5**

CXA2170_Backend

No	Name	Def.	Min	Max	Val.
1	PIC_ON	1	0	1	1
2	B_ON	0	0	1	0
3	G_ON	0	0	1	0
4	B_ON	0	0	1	0
5	OCOL	0	0	0	0
6	WB_SW	0	0	1	0
7	PICTURE	45	0	53	40
8	VM_LMT	3	0	3	3
9	HUE	30	0	53	31
10	OFFSET_SW	0	0	1	0

Up: [↑] Down: [↓] Back: [←] Edit: [→] Reset/RED Key Page 1/6

Table.4-6

CXA2170 Backend Setup

No.	Name	Def.	Min	Max	Val.
1	SUB_COLOUR	0	-8	8	119

Up Down Back Edit Reset RED Key Page 1/1

Table 4-7

CXA2170 Deflection

No.	Name	Def.	Min	Max	Val.
1	UP BLK	0	0	15	0
2	LO BLK	0	0	15	0
3	V SIZE	45	0	63	40
4	V ON	0	0	63	0
5	SW DC	0	0	63	0
6	V POS	34	0	63	22
7	PSY SW	0	0	63	0
8	V LIN	7	0	15	7
9	S CORR	0	0	15	0
10	H SIZE	30	0	63	25

Up: Back: Reset: Page 1/8

Table 4-8

CXA2170 Status

No.	Name	Def.	Min	Max	Val.
1	HLOCK	0	0	1	1
2	IWR	0	0	1	1
3	HNG	0	0	1	0
4	VNG	0	0	1	0

Up: [F5] Down: [F6] Back: [F7] Edit: [F8] Reset: RED Key Page 1/1

Table 4-9

MBR8141 Deflection DAC

No.	Name	Def.	Min	Max	Val.
1	SFC_VSYM	0.	0.	255	128
2	UNUSED	0	0	255	83
3	DF_PHASE	175	0.	255	172
4	H_LINEARITY	127	0.	255	0
5	UNUSED	0.	0.	255	220
6	UNUSED	0	0	255	129
7	OP_PHASE	105	0.	255	157
8	UNUSED	0	0	255	170
9	MID_LINEARITY	130	0.	255	157
10	H CENTRE	140	0.	255	255

[Up] Down: [Left] Back: [Right] Edit: [F1] Reset: RED Key Page 1/2

Table 4-10

CXD9761 SFC

No.	Name	Def.	Min	Max	Val.
1	TEU	0	-128	127	10
2	TEM	17	-128	127	17
3	TED	0	-128	127	0
4	TEU	0	-128	127	10
5	R_TEM	78	-128	127	78
6	R_TEO	0	-128	127	0
7	RSTE	0	-128	127	0
8	ENU	0	-128	127	0
9	ENEND	25	-128	127	25
10	END	0	-128	127	0

Up Down Back Edit Reset:RED Key Page 1/5

Table 4-11

CXD9761 SFC_Setup

No.	Name	Def.	Min	Max	Val.
1	PGM_ARRAY	3	0	7	7
2	HCMX	32	0	127	127
3	VCMX	32	0	127	127
4	LCMX	64	0	127	127
5	LAMX	64	0	127	127
6	NSMX	64	0	127	127
7	TESW	1	0	1	1
8	ENSW	1	0	1	1
9	NSSW	1	0	1	1
10	EWISW	1	0	1	0

Jm: ☐ Down: ☐ Back: ☐ Edit: ☐ Reset: ☐ RED Key Page 1/3

Table.4-1

3D Comb

3D Comb

CXD3804R Control

CXD3804R Status

Up: [arrow] Down: [arrow] Back: [arrow] Next: [arrow] Page 1/1

Table 4-13

CXD3804R Control

No	Name	Def	Min	Max	Val
1	PLL	0	0	3	0
2	CKSEL	0	0	3	0
3	ADCKSEL	0	0	3	0
4	INSW	0	0	3	0
5	THRU	0	0	3	0
6	PDWN	0	0	3	0
7	VSIZE	0	0	3	0
8	HSIZE	0	0	3	0
9	PNSW	0	0	3	0
10	PEDCLIP	0	0	3	0

Up: Down: Back: Edit: Reset: RED Key Page 1/6

Table 4-14

CXD3804R Status

No.	Name	Def.	Min	Max	Val.
4	Undefined	0	0	255	0

Up: Down: Back: Edit: Reset: Key Page 111

Table 4-1

Analogue Chroma

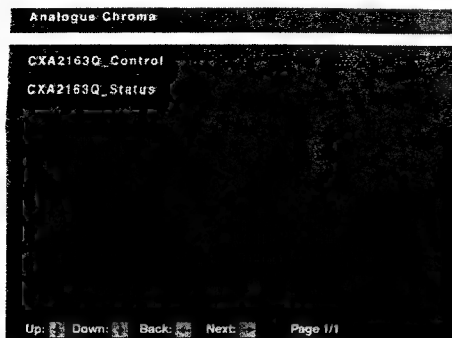


Table.4-16

CXA2163Q_Control

No.	Name	Def.	Min	Max	Val.
1	PN_ID	0	0	1	0
2	PN_GW	0	0	1	0
3	HUE	0	0	1	0
4	SUB_CONTRAST	0	0	1	0
5	SUB_COLOR	3	0	3	3
6	SHARPNESS_GAIN	10	0	15	10
7	SHARPNESS_EQ	2	0	3	2
8	SHARPNESS_FD	2	0	3	2
9	BS_POINT	0	0	1	0
10	OUT_LEVEL	11	0	63	11

Table.4-17

CXA2163Q_Status

No.	Name	Def.	Min	Max	Val.
1	POA	0	0	1	0
2	COLOR_SYSTEM	0	0	3	1
3	X_TAL	0	0	3	0
4	N_DET	0	0	3	0
5	H_LOCK	0	0	1	1
6	V_FREQ	0	0	1	0
7	V_STD	0	0	1	0
8	C_IN	0	0	1	0
9	V_SIG	0	0	1	0
10	V15	0	0	1	0

Table.4-18

Digital Chroma

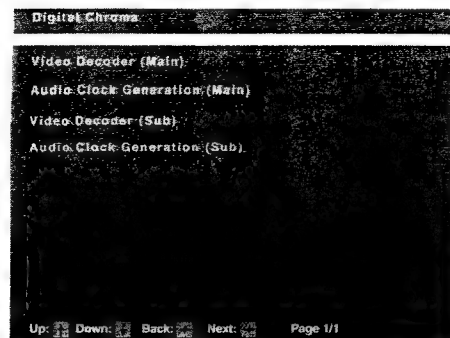


Table.4-19

Video Decoder (Main)

No.	Name	Def.	Min	Max	Val.
1	FUSE	2	0	3	2
2	MODE	39	0	63	10
3	GAFIX	0	0	1	1
4	GA128	0	0	1	0
5	GA118	0	0	1	0
6	GA117-GA110	32	0	255	64
7	GA127-GA120	192	0	255	224
8	BYP5	0	0	1	0
9	YCOMB	0	0	1	0
10	LUF1	0	0	15	9

Table.4-20

Audio Clock Generation (Main)

No.	Name	Def.	Min	Max	Val.
1	ACPP	0	0	262143	0

Table.4-21

Analogue Sound

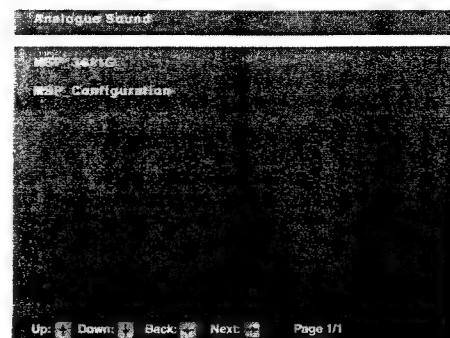


Table.4-22

MSP_3411G

No.	Name	Def.	Min	Max	Val.
1	Vol_Loud	0	0	127	48
2	L_Bal	0	-127	127	0
3	L_Bass	0	-96	127	0
4	L_Treble	0	-96	120	0
5	L_Loud	0	0	68	23
6	Spatial	0	-128	127	0
7	Spatial_Mode	0	0	48	0
8	Vol_Head	0	0	127	0
9	PRE_FM	27	0	127	27
10	PRE_125	16	0	127	16

Table.4-23

MSP_Configuration

No.	Name	Def.	Min	Max	Val.
1	AMBASE_ON	1	0	1	1
2	NICAM_ON	1	0	1	1
3	PRE_NICAM_BG	53	0	127	53
4	PRE_NICAM_L	59	0	127	59
5	PRE_NICAM_DK	53	0	127	53
6	PRE_NICAM_I	97	0	127	97

Table.4-24

Monitor

'Monitor' is a sub menu of 'Service Menu'.
Pressing the cursor up & down keys will scroll through the options available.
The cursor left key will return to 'Service Menu'.



Table.4-25

Error Monitor

Error Monitor	
Error Detection	On
Error 1	No Error
Error 2	No Error
Error 3	No Error
Error 4	No Error
Error 5	No Error
Operating Time	
Hours	000013
Mins	30

Table.4-26

Production Monitor

Production Monitor	
Model/Chassis	36HQ100/AE-7A
M2 SW Version	RELEASE_M2_V065
MIPS SW Version	1.26/0
TN SW Version	1.26/0
BTM SW Version	1.00/0
Destination	BL
Service Mode	Service
Auto Standby	Enabled
FM Overmodulate	Disabled
100Hz Mode Menu	Disabled

Table.4-27

Deflection System Adjustment

1. Enter into the service mode and select 'Device Settings' => 'Backend' => 'CXA2170_Deflection' from the menu. The 'Deflection' adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

No	Name	Def.	Min	Max	Val.
1	UP_BLK	0	0	15	0
2	LO_BLK	0	0	15	0
3	V_SIZE	45	0	63	40
4	V_ON	0	0	1	0
5	SW_DC	0	0	1	0
6	V_POS	34	0	63	22
7	RST_SW	0	0	1	0
8	V_LIN	7	0	15	7
9	S CORR	0	0	15	0
10	H_SIZE	30	0	63	25

Up: [Up] Down: [Down] Back: [Back] Edit: [Edit] Reset: RED Key Page 1/8

Table 4-28

No	Name	Def.	Min	Max	Val.
11	UP_UCP	0	0	3	0
12	PIN_AMP	16	0	63	16
13	LO_UCP	0	0	3	0
14	UP_CPIN	35	0	63	35
15	UP_UCG	0	0	3	0
16	LO_CPIN	35	0	63	35
17	LO_UCG	0	0	3	0
18	PIN_PHASE	29	0	63	26
19	UC_POL	0	0	1	0
20	PC_POL	0	0	1	0

Up: [Up] Down: [Down] Back: [Back] Edit: [Edit] Reset: RED Key Page 2/8

Table 4-29

No	Name	Def.	Min	Max	Val.
21	H_POS	31	0	63	0
22	MS15K	0	0	1	0
23	CLP_SHIFT	0	0	1	0
24	AFC_BOW	33	0	63	35
25	AFC_MODE	2	0	3	2
26	AFC_ANGLE	30	0	63	30
27	SYNC_PHASE	0	0	1	0
28	LEFT_BLK	33	0	63	32
29	CLP_PHASE	0	0	1	0
30	RIGHT_BLK	27	0	63	26

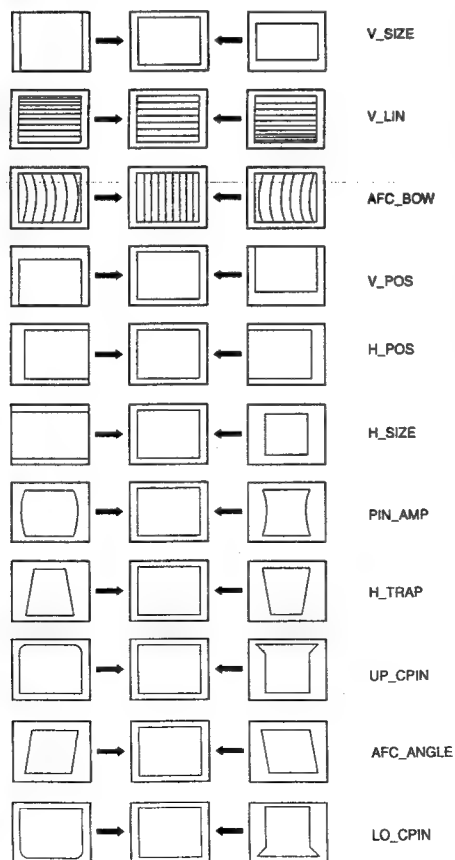
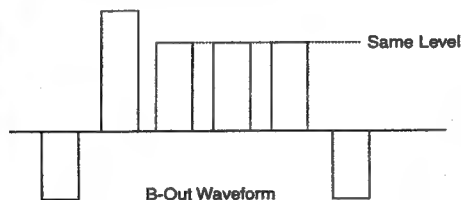
Up: [Up] Down: [Down] Back: [Back] Edit: [Edit] Reset: RED Key Page 3/8

Table 4-30

4-2. Volume Electrical Adjustments

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN7301 pin 5 located on the C2 Board.
3. Set the TV into 'Service Mode' (See page 27).
4. Choose 'Device Settings' > 'Backend' > 'CXA2170_Backend_Setup' from the menu.
5. Adjust 'SUB_COLOUR' data so that the right sides of the waveform are of equal height.



4-3. TEST MODE 2:

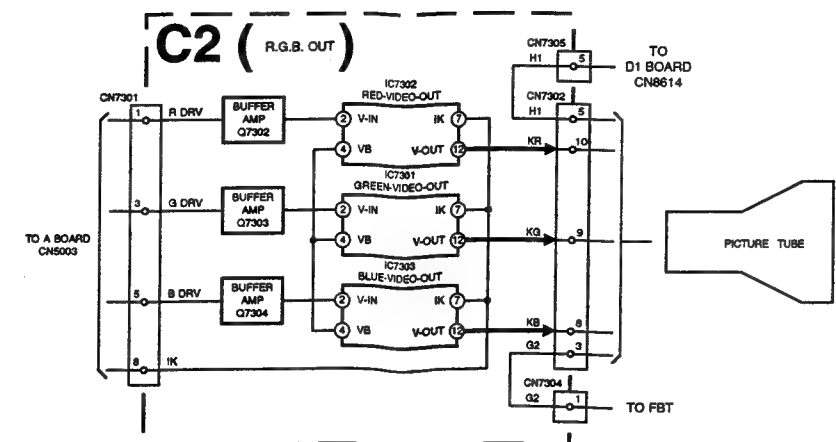
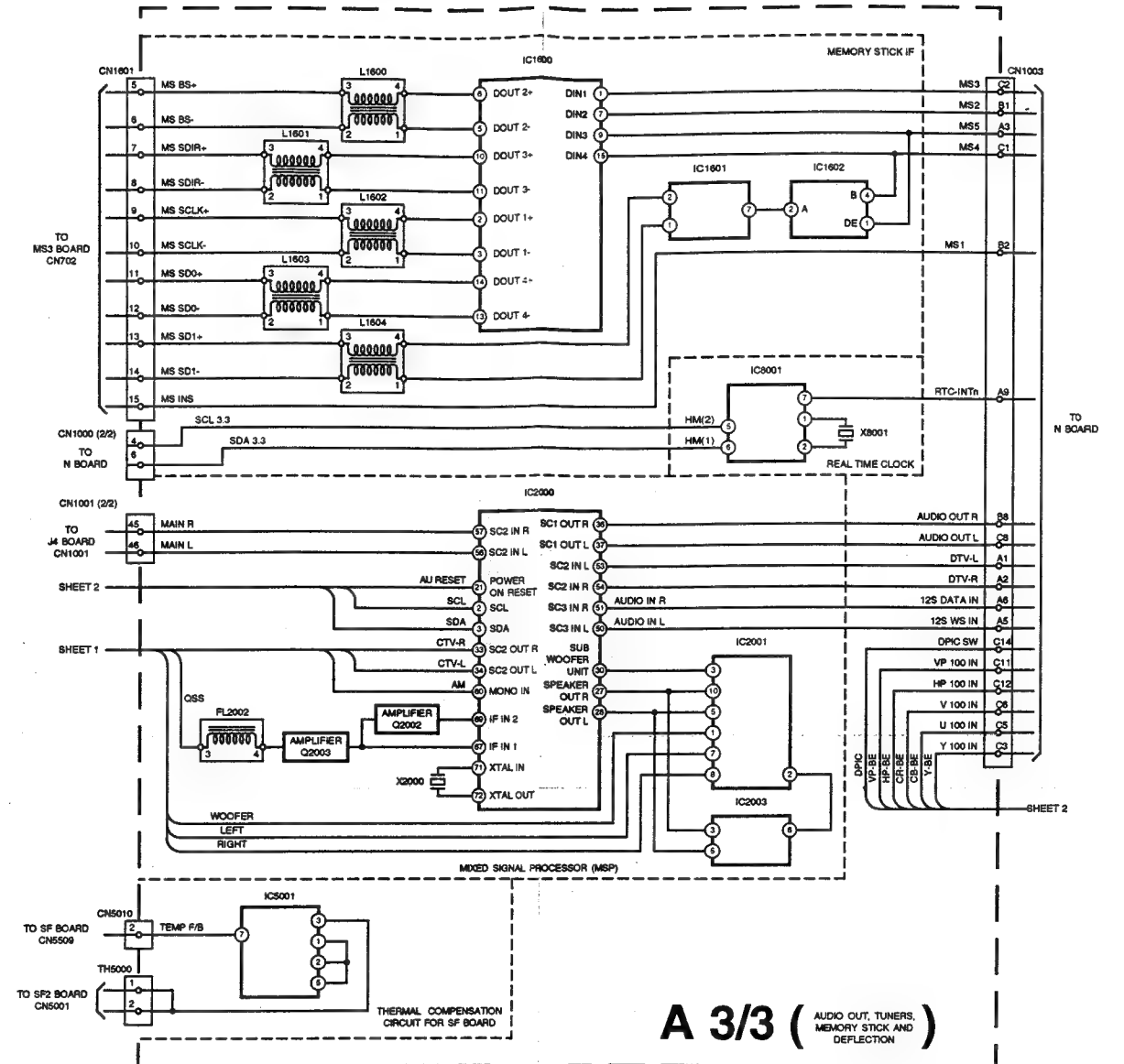
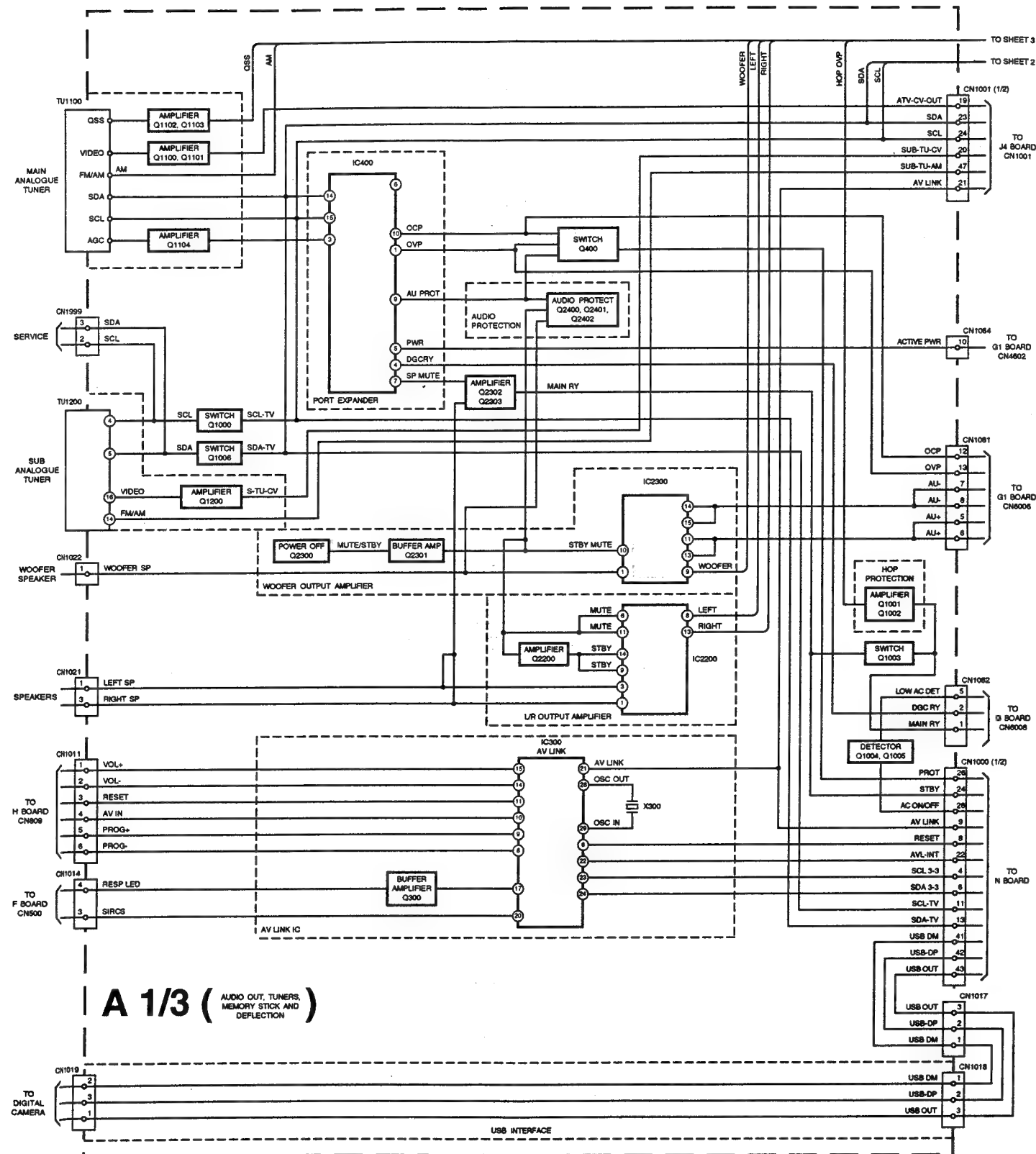
Is available by pressing the 'VIDEO' button twice, when the remote commander is set to 'Service Mode' (See Page 27). OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 0 twice, press the TV button or switch the TV set into Stand-by mode. Pressing the two Local Control buttons (PROG + and -) during power ON will also switch into 'TT' mode. Also with the TV in standby mode use the following key sequence.



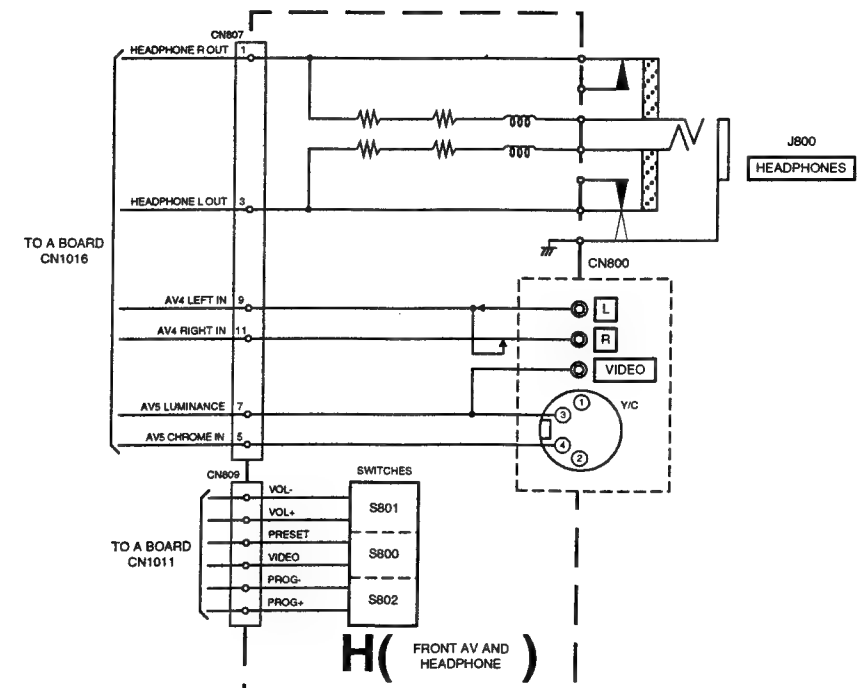
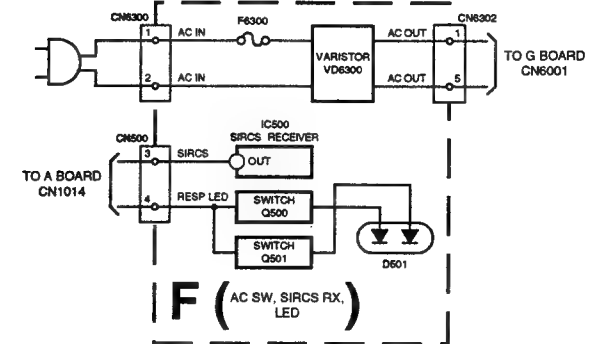
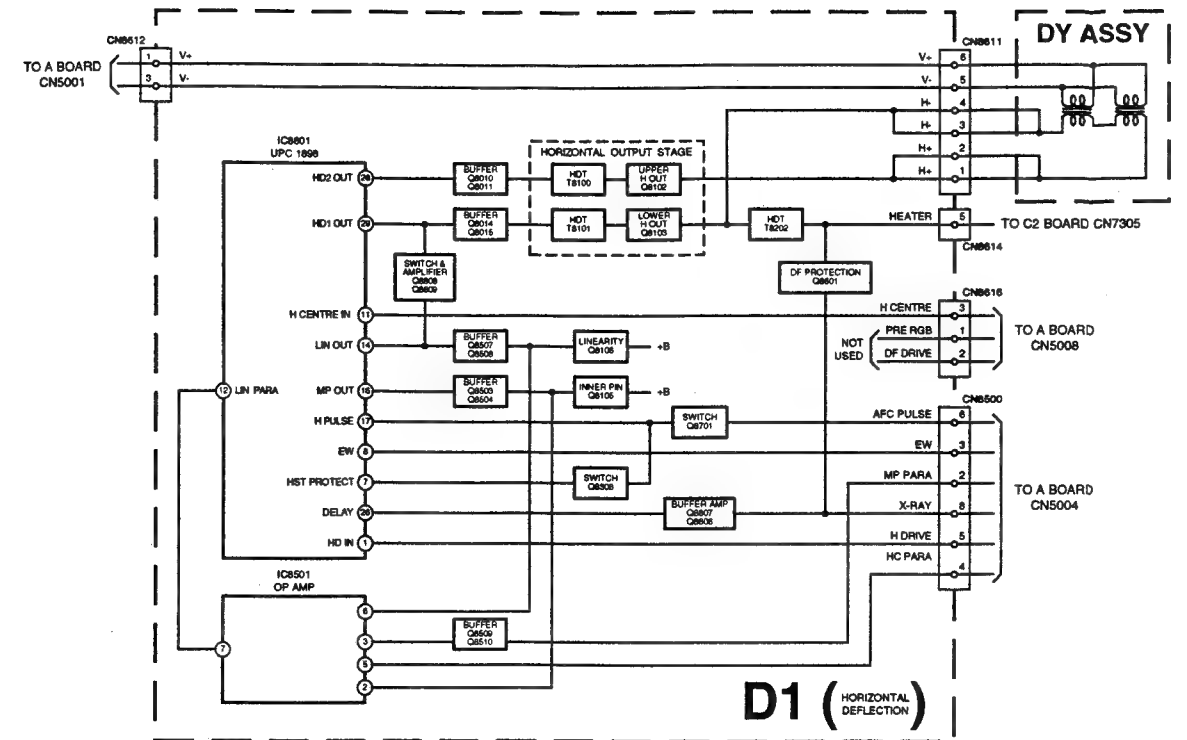
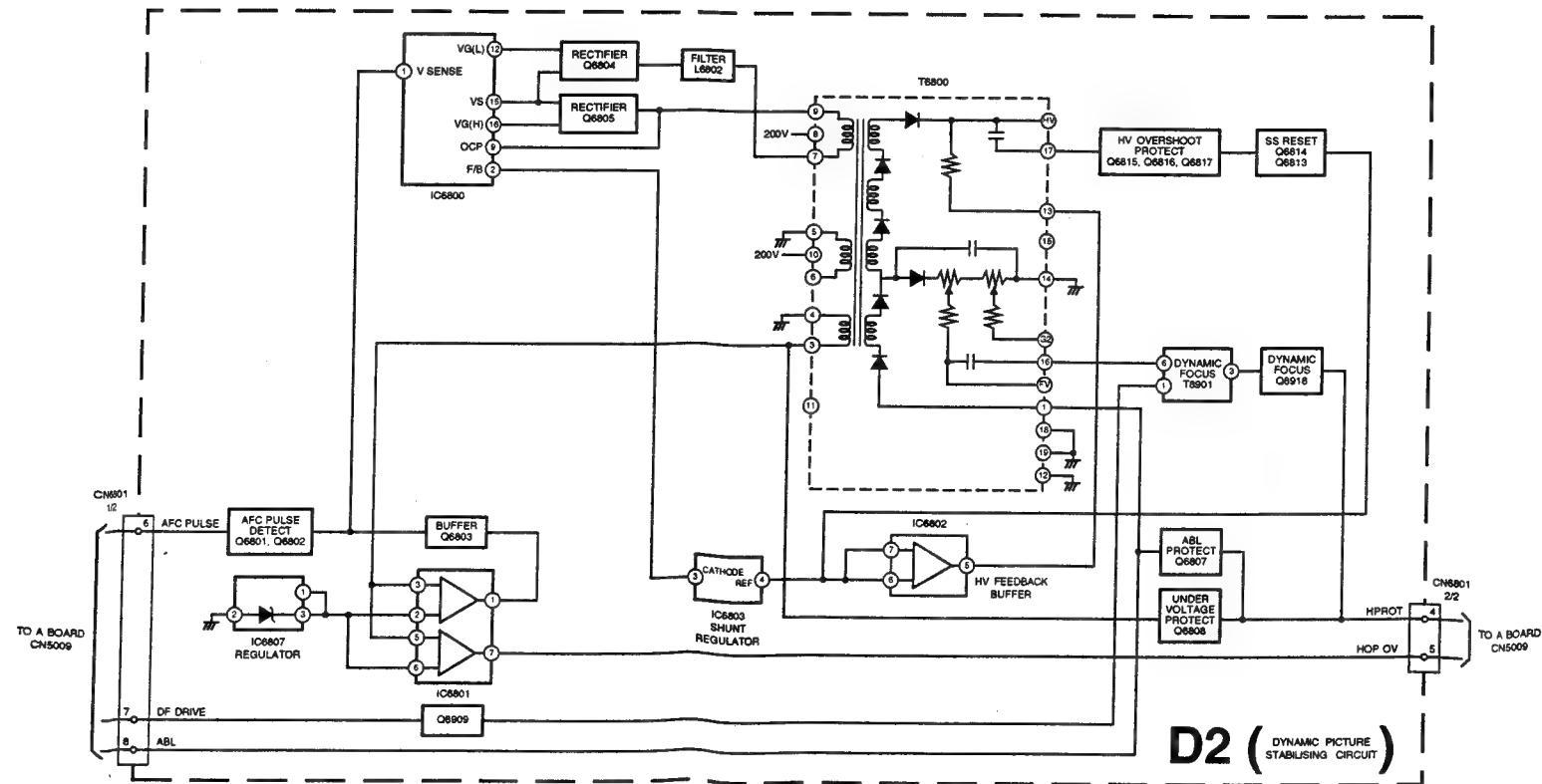
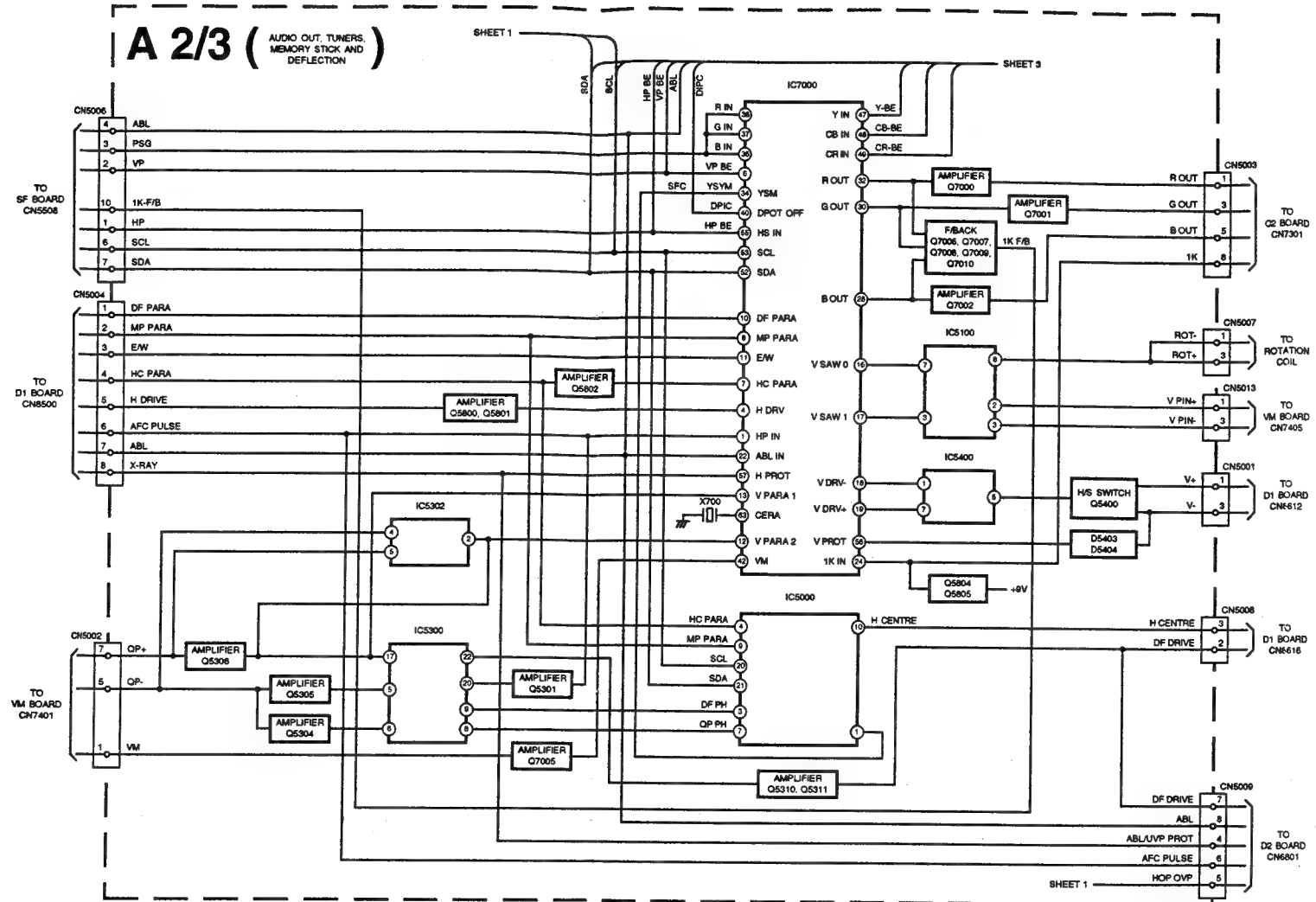
Menu	
00	Enter Service Menu
01	Exit from 'TT' mode
02	Set picture level to maximum
03	Set picture level to minimum
04	Set speaker/headphone Volume to 35%
05	Set speaker/headphone Volume to 50%
06	Set speaker/headphone Volume to 65%
07	Set speaker/headphone Volume to 80%
08	Ageing mode on
09	Shipping Condition
10	Sub picture adjustment
11	Sub colour adjustment
12	Sub brightness adjustment
13	Rotation coil test
14	Picture level 50%
15	Production monitor
16	Design mode enable/disable
17	Production mode enable/disable
18	Destination ADE
19	Destination B, Multi
20	Destination U
21	Destination K
22	Destination R
23	H Centre Adjustment
24	Auto standby enable/disable
25	Screen Mode Automatic Test
26	VM off/on test
27	VM on
28	VM off
29	Select Dual A sound
30	Select Dual B sound
31	Select Mono sound

46	Select Stereo sound
47	Set Flash as non-virgin
48	Set Flash as virgin
49	Virtual Dolby on/off
50	Subwoofer check
51	FM Overmodulation enable/disable
52	Enter SFC adjustment mode
53	Focus Phase adjust
54	Focus DC level adjust
55	Memory Stick Capture Test
56	Camera Test
57	AM from baseband enable/disable
58	Reset Errors
59	Error Checking enable/disable
60	Force PAL
61	Unforced PAL
62	Pin Amp/UC Pin Deflection offset adjust
63	LC Pin/Trap Deflection offset adjust
64	Reset Deflection offsets
65	Balance full left
66	Balance full right
67	Digital BER Display On/Off
68	Local keys test
69	Clear digital tuning database
70	Set 14:9 mode
71	Set Smart mode
72	Set 16:9 mode
73	Set ZOOM mode
74	Set 4:3 mode
75	TS path switch (tuner/CI slot)
76	Display Error and Working Time menu

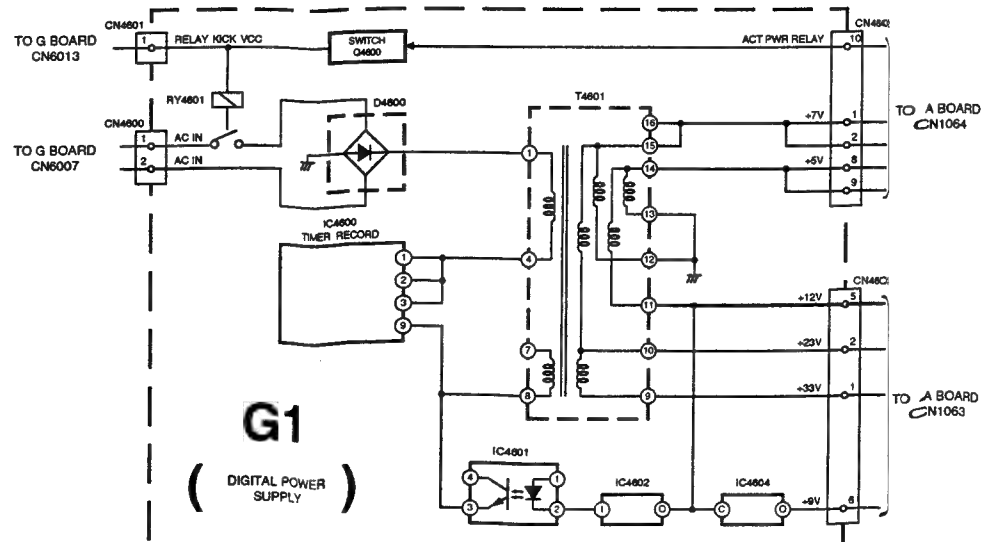
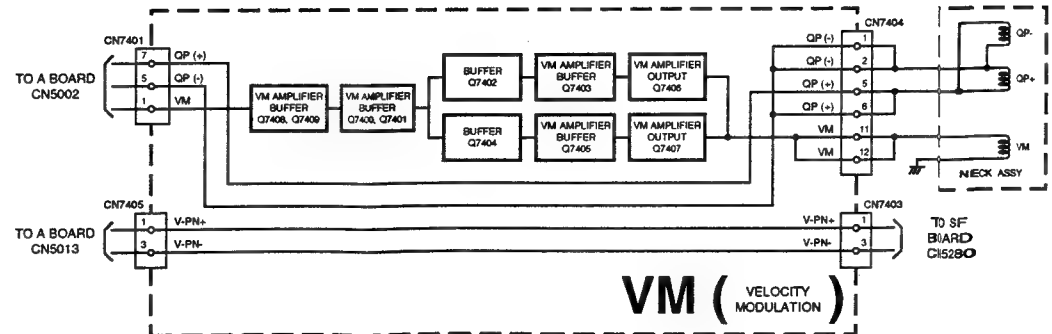
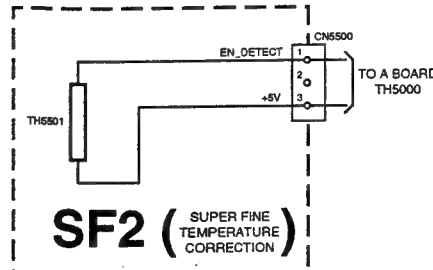
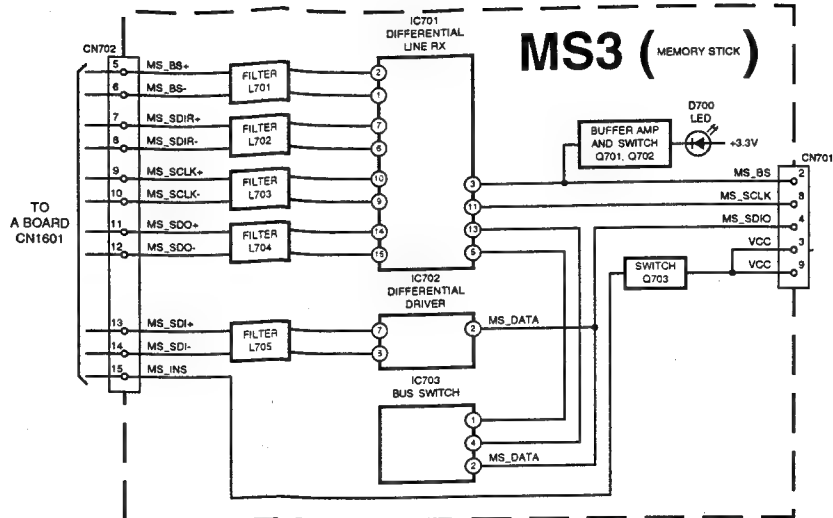
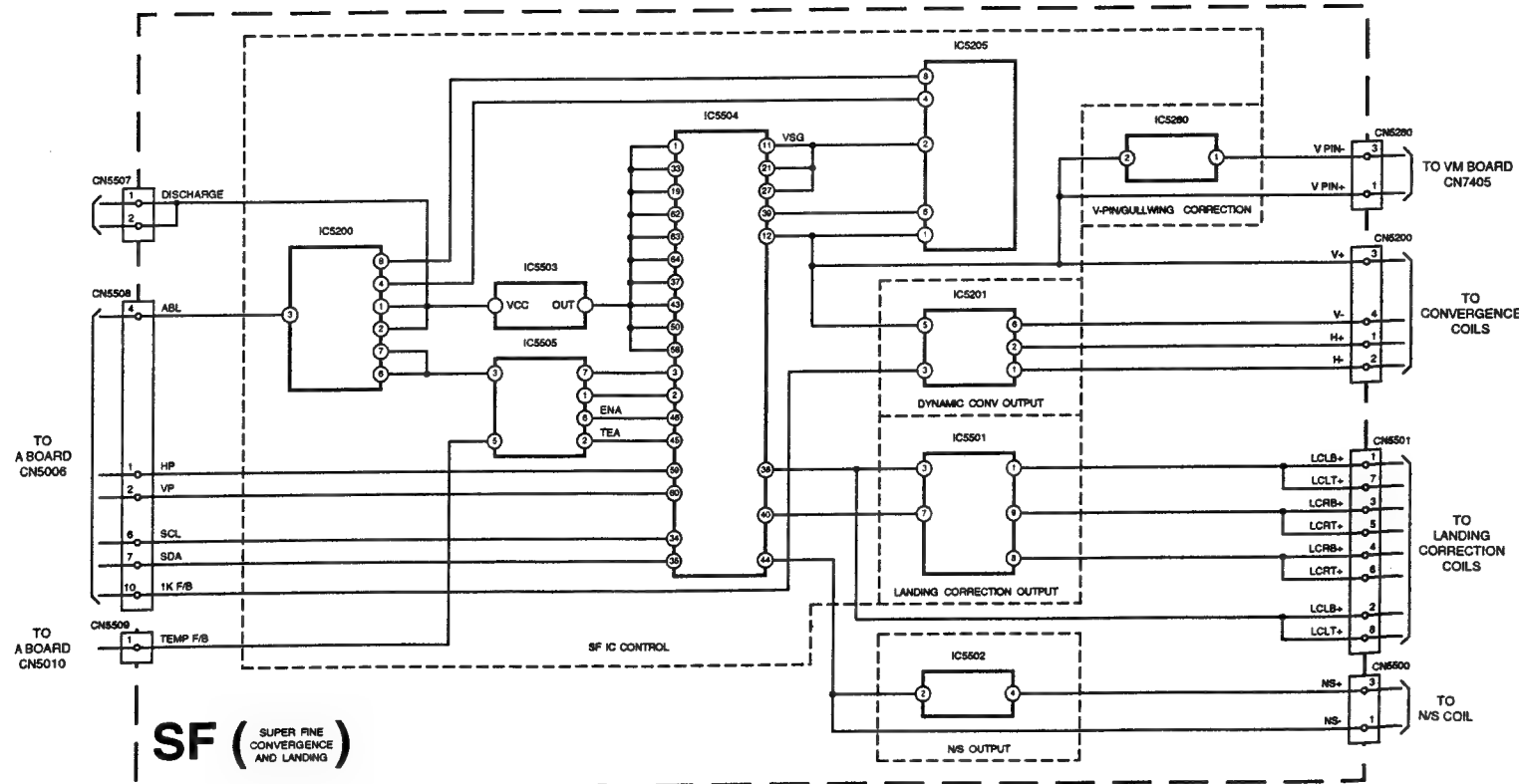
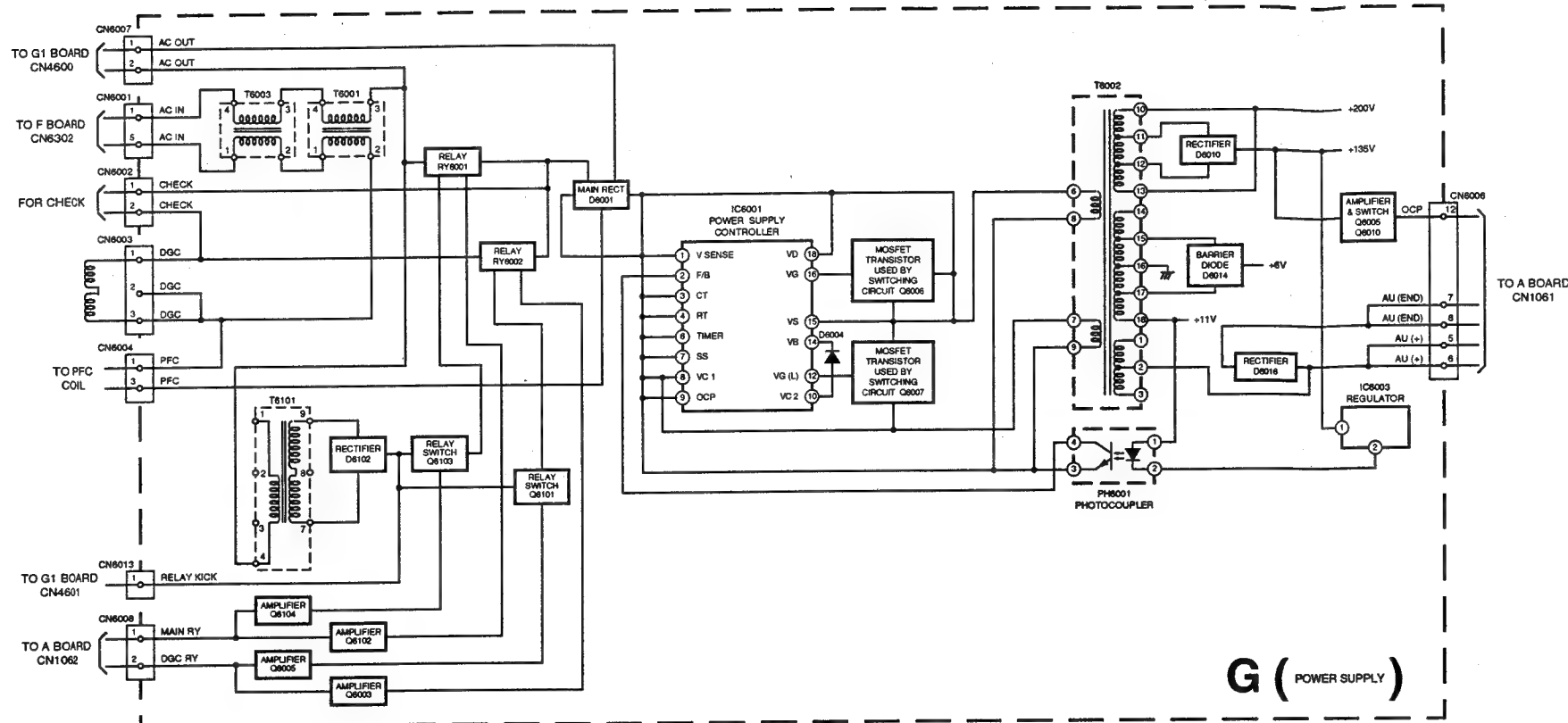
5-1. BLOCK DIAGRAMS (1)



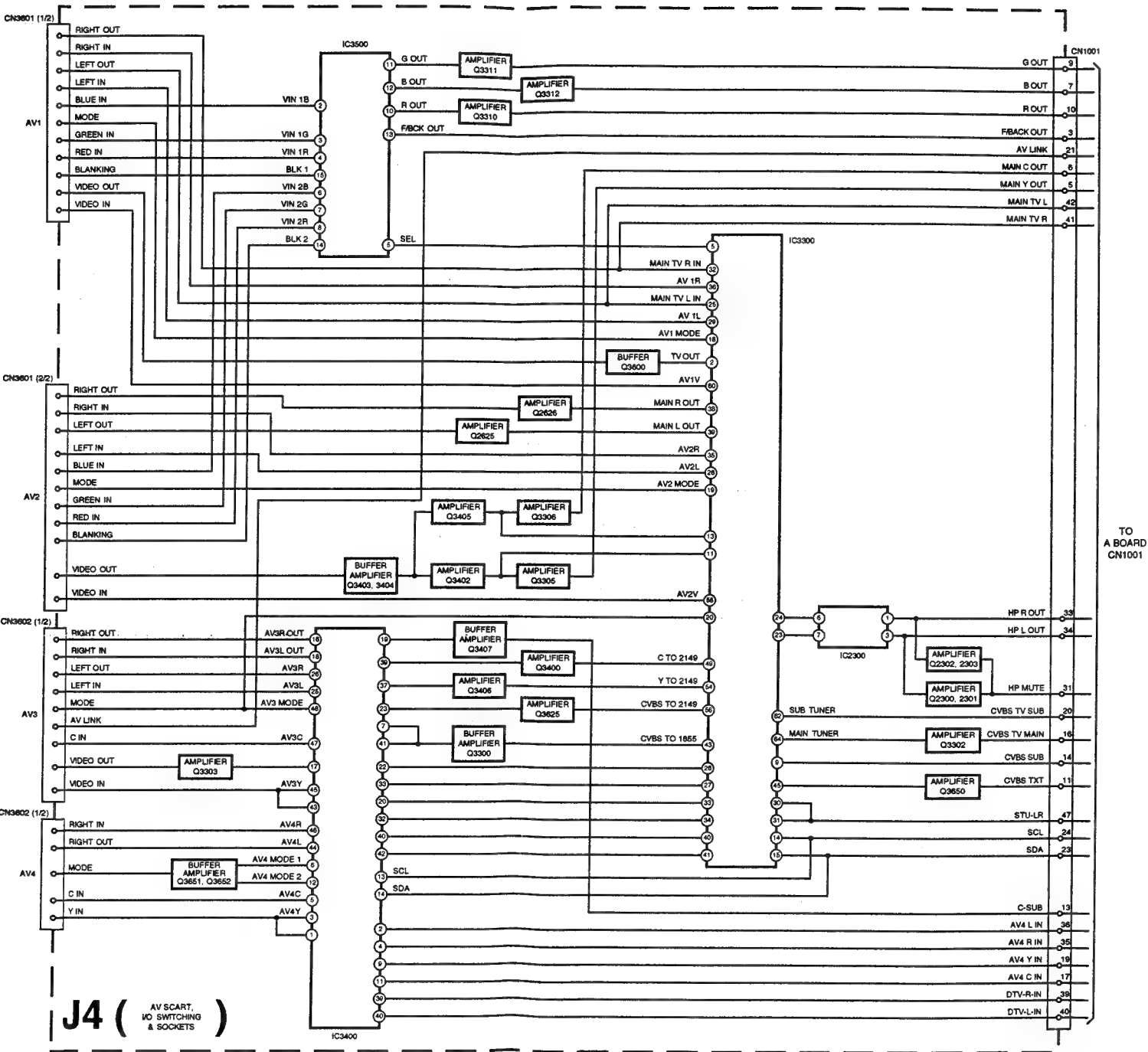
5-1. BLOCK DIAGRAMS (2)



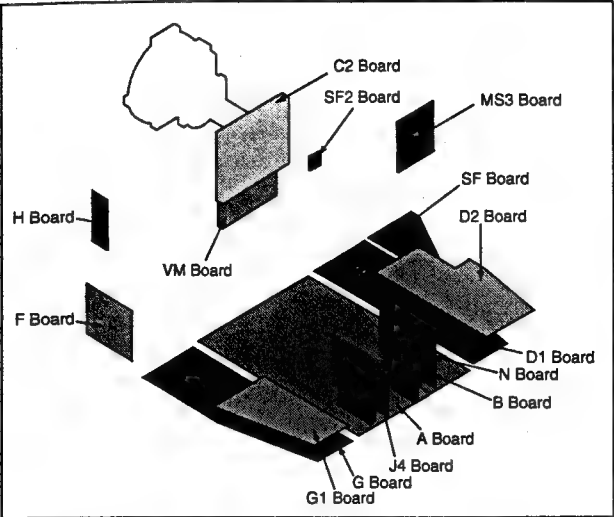
5-1. BLOCK DIAGRAMS (3)



5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :**
- All capacitors are in μF unless otherwise noted.
 - pF : μF 50WV or less are not indicated except for electrolytic types.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch : 5mm
Electrical power rating : 1/4W
- Chip resistors are 1/10W
 - All resistors are in ohms.
 $k = 1000 \text{ ohms}$, $M = 1000,000 \text{ ohms}$
- : nonflammable resistor.
 - : fusible resistor.
 - : internal component.
 - : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - All voltages are in Volts.
 - Readings are taken with a 10Mohm digital mutimeter.
 - Readings are taken with a color bar input signal.
 - Voltage variations may be noted due to normal production tolerances.
- : B + bus.
 - : B - bus.
 - : RF signal path.
 - : earth - ground.
 - : earth - chassis.

Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

~ A Board Location Table (A Side) ~

DIODE	D4100	B - 1	D6201	J - 2	D7015	K - 6	IC2000	F - 6	IC5302	M - 9	IC6216	K - 2	Q2406	A - 3	Q5800	I - 10	
D400	K - 1	D5303	L - 9	D6202	N - 2	D8001	C - 3	IC2003	F - 4	IC5400	D - 10	IC6225	L - 4	Q2408	B - 3	Q5804	L - 8
D1607	H - 4	D5304	L - 9	D6203	M - 3	IC		IC2200	G - 3	IC6203	M - 3	IC6229	K - 5	Q5304	K - 9	Q5805	L - 8
D2000	G - 6	D5305	L - 9	D6206	J - 5	IC300	M - 5	IC2300	I - 3	IC6205	M - 2	IC7000	J - 6	Q5305	K - 9	Q7000	K - 7
D2002	H - 4	D5400	E - 10	D6215	N - 2	IC400	J - 2	IC5000	K - 8	IC6211	J - 5	IC8001	D - 3	Q5308	M - 10	Q7001	K - 7
D2004	H - 5	D5401	D - 10	D7000	L - 6	IC1600	I - 5	IC5001	N - 6	IC6212	J - 4		TRANSISTOR		Q5310	I - 10	Q7002
D2400	B - 3	D5402	E - 10	D7002	L - 7	IC1601	H - 6	IC5100	L - 8	IC6213	J - 3	Q300	L - 5	Q5311	I - 10	Q7003	L - 7
D2403	B - 3	D6200	J - 3	D7010	L - 6	IC1602	H - 6	IC5300	J - 10	IC6215	M - 4	Q400	K - 2	Q5400	F - 10	Q7004	L - 7

~ A Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q1100	1.3	2.0	4.3	Q2004	4.9	5.5	8.8
Q1101	4.9	4.3	2.1	Q5801	3.5	2.8	0
Q1104	0	0.4	4.2	Q5804	3.5	4.2	0
Q2002	1.2	1.8	4.9	Q5801	3.5	2.2	8.9
Q2003	1.8	2.4	4.9	Q7002	3.6	3.0	0

~ A Board Location Table (B Side) ~

DIODE		D2003	H - 5	D2400	M - 3	D5401	K - 10	D6203	A - 3	IC5302	B - 9	IC6216	C - 2	Q1006	G - 8	Q2003	I - 5	Q5304	C - 9
D303	B - 5	D2004	G - 5	D2403	M - 3	D5402	I - 10	D6204	B - 2	IC5400	K - 10	IC6225	C - 3	Q1100	H - 3	Q2301	F - 2	Q5305	D - 9
D1001	M - 9	D2200	G - 2	D4100	M - 2	D5403	H - 10	D6206	E - 5	IC5600	G - 10	IC6229	C - 5	Q1101	H - 3	Q2302	G - 2	Q5309	B - 9
D1002	M - 10	D2201	F - 2	D5303	C - 9	D5404	H - 9	IC		IC6203	B - 2	TRANSISTOR		Q1102	I - 3	Q2303	G - 2	Q5400	I - 10
D1003	M - 10	D2300	G - 2	D5304	C - 9	D5800	C - 8	IC2001	H - 4	IC6205	B - 2	Q1000	G - 8	Q1103	J - 3	Q2400	E - 4	Q5801	E - 8
D1004	M - 10	D2301	G - 2	D5305	C - 9	D5801	B - 8	IC2200	G - 3	IC6211	D - 5	Q1001	B - 1	Q1104	L - 3	Q2401	E - 5	Q7005	E - 7
D1008	C - 2	D2302	G - 2	D5307	A - 10	D6200	E - 3	IC2300	F - 3	IC6212	E - 4	Q1002	B - 1	Q1200	H - 2	Q2402	F - 5		
D1100	L - 3	D2303	F - 3	D5308	A - 10	D6201	E - 2	IC5100	B - 7	IC6213	E - 2	Q1004	C - 2	Q1301	M - 3	Q2407	M - 3		
D2001	H - 6	D2304	F - 2	D5400	J - 10	D6202	A - 2	IC5300	E - 10	IC6215	B - 3	Q1005	B - 1	Q2002	I - 5	Q5301	E - 9		

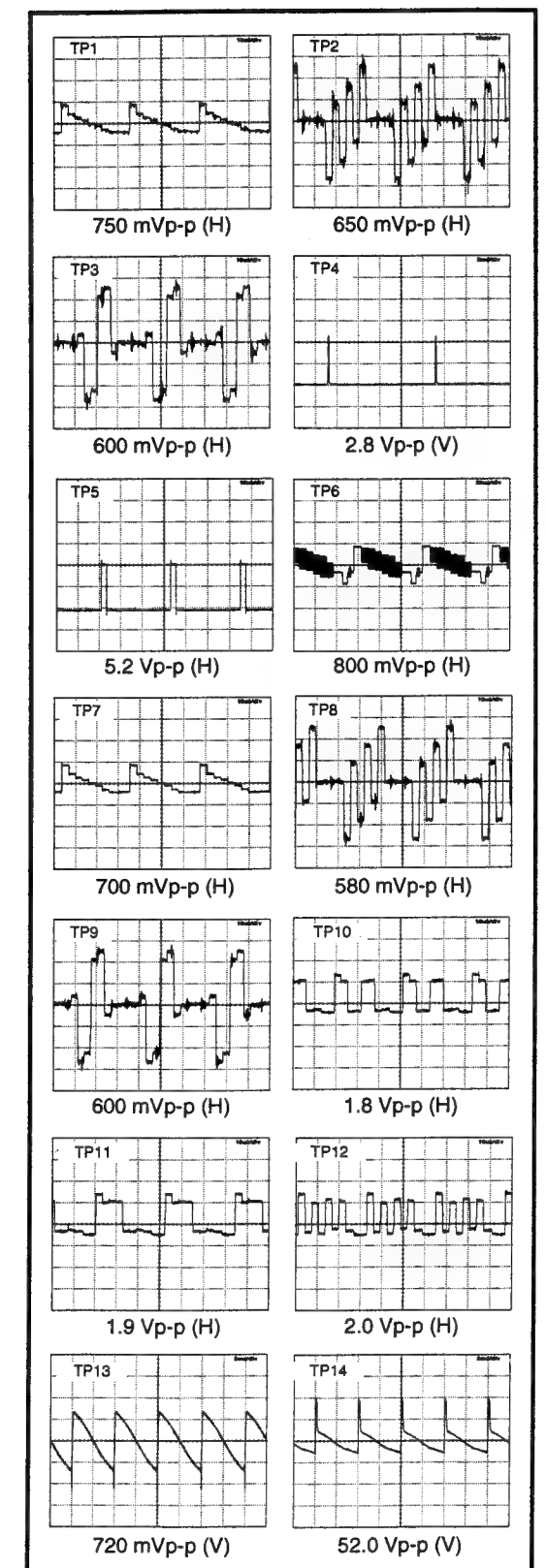
~ A Board IC Voltages ~

Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)				Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)	Ref No	Pin No	Volts (V)
IC2200	1	0	IC2200	11	0.3	IC2300	6	-13.3	IC5000	1	1.9	IC5000	11	2.2	IC5000	21	4.8	IC7000	7	0	IC7000	17	2.6	IC7000	27	0.9	IC7000	39	2.1	IC7000	49	5.2	IC7000	59	1.5
	2	15.2		12	0		7	0		2	1.1		12	2.4		22	4.9		8	3.6		18	1.1		28	0.3		40	2.8		50	3.4		60	1.5
	3	0		13	0		8	-15.3		3	3.6		13	4.9		23	0		9	3.6		19	4.9		29	5.0		41	0		51	4.1		61	8.9
	4	-15.3		14	0		9	0		4	2.3		14	0		24	0		10	3.6		20	3.5		30	5.7		42	0		52	3.4		62	2.9
	5	0		15	15.2		10	4.2		5	4.2		15	4.9		1	0		11	0		21	3.4		31	1.3		43	3.3		53	3.4		63	2.9
	6	0.3	IC2300	1	0		11	15.2	IC5000	6	4.2	IC5000	16	4.9	IC7000	2	0		12	0.9		22	3.4		32	3.1		44	0		54	0.6		64	2.7
	7	0		2	-4.3		12	-4.3		7	2.4		17	4.9		3	0		13	0		23	5.0		34	0		45	4.2		55	8.9			
	8	0		3	10.0		13	15.2		8	2.6		18	0		4	3.1		14	2.4		24	0		35	0.9		46	3.5		56	4.3			
	9	0		4	0		14	-15.3		9	2.6		19	0		5	3.1		15	4.9		25	4.8		37	0		47	3.8		57	4.9			
	10	0		5	0		15	-15.3		10	1.5		20	4.8		6	3.1		16	2.6		26	4.8		38	2.3		48	4.4		58	3.7			

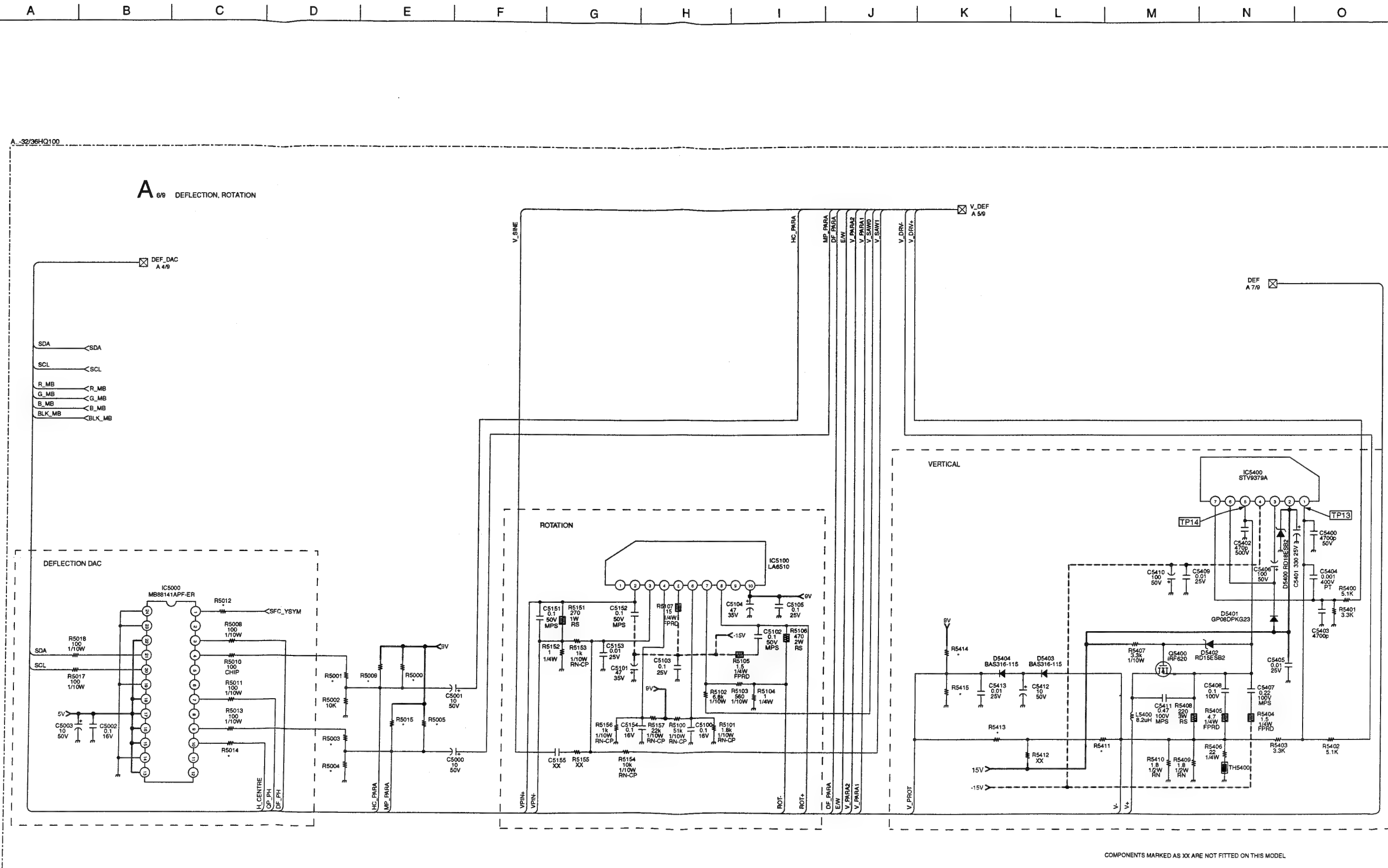
~ A Board Difference Table ~

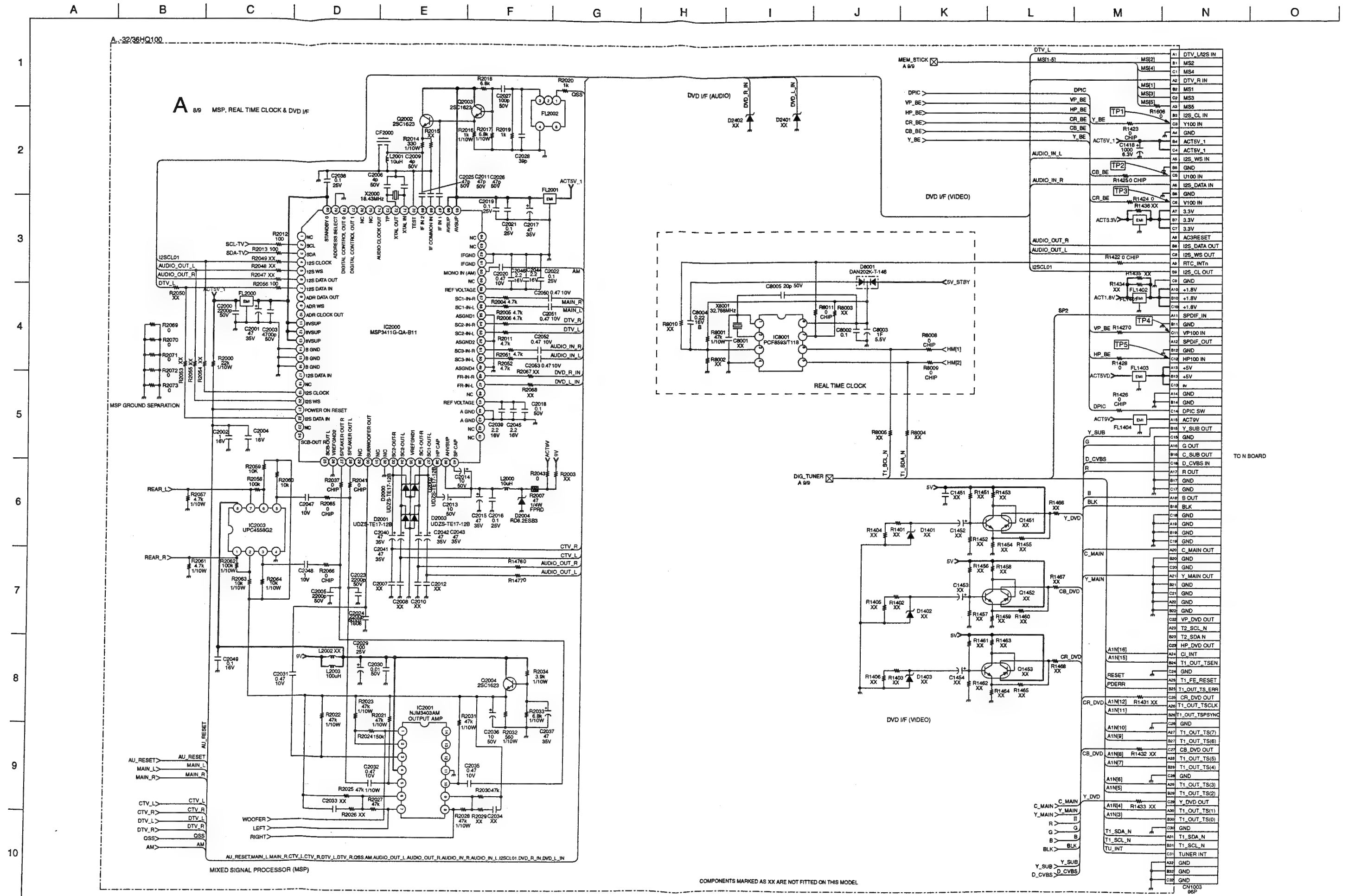
Ref	KV-32HQ100B	KV-32HQ100E	KV-32HQ100K	KV-36HQ100B	KV-36HQ100E	KV-36HQ100K	Ref	KV-32HQ100B	KV-32HQ100E	KV-32HQ100K	KV-36HQ100B	KV-36HQ100E	KV-36HQ100K
C1009	-	-	-	47PF	47PFV	47PF	R5009	-	-	-	220K	220K	220K
C1010	-	-	-	47PF	47PF	47PF	R5012	-	-	-	100	100	100
C1011	-	-	-	47UF	47UF	47UF	R5014	-	-	-	100	100	100
C1013	-	-	-	0.1UF	0.1UF	0.1UF	R5015	33K	33K	33K	100K	100K	100K
C5320	0.0047UF	0.0047UF	0.0047UF	0.01UF	0.01UF	0.01UF	R5310	47K	47K	47K	68K	68K	68K
C5322	-	-	-	0.022UF	0.022UF	0.022UF	R5311	10K	10K	10K	15K	15K	15K
C7030	-	-	-	0.1UF	0.1UF	0.1UF	R5350	6.2K	6.2K	6.2K	6.8K	6.8K	6.8K
CN1017	-	-	-	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	R5371	0	0	0	-	-	-
CN1018	-	-	-	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	PLUG, CONNECTOR 4P	R5372	0	0	0	-	-	-
CN1019	-	-	-	CONNECTOR USB(A)	CONNECTOR USB(A)	CONNECTOR USB(A)	R5411	4.7K	4.7K	4.7K	2.7K	2.7K	2.7K
CN5010	-	-	-	PLUG, CONNECTOR 3P	PLUG, CONNECTOR 3P	PLUG, CONNECTOR 3P	R5413	10K	10K	10K	8.2K	8.2K	8.2K
D1009	-	-	-	DAN202K	DAN202K	DAN202K	R5414	100K	100K	100K	68K	68K	68K
D1010	-	-	-	DAP202K	DAP202K	DAP202K	R5415	47K	47K	47K	27K	27K	27K
D1011	-	-	-	UDZSTE-175.6B	UDZSTE-175.6B	UDZSTE-175.6B	R5821	5.6K	5.6K	5.6K	10K	10K	10K
D7012	-	-	-	1SS355TE-17	1SS355TE-17	1SS355TE-17	R7043	-	-	-	2.2K	2.2K	2.2K
L5300	10MH	10MH	10MH	6.8MH	6.8MH	6.8MH	R7044	-	-	-	2.2K	2.2K	2.2K
L5301	10MH	10MH	10MH	4.7MH	4.7MH	4.7MH	R7045	-	-	-	2.2K	2.2K	2.2K
L5302	-	-	-	3.3MH	3.3MH	3.3MH	R7046	-	-	-	10K	10K	10K
Q7006	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1	R7047	-	-	-	10K	10K	10K
Q7007	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1	R7048	-	-	-	10K	10K	10K
Q7008	-	-	-	MSB709-RT1	MSB709-RT1	MSB709-RT1	R7049	-	-	-	10K	10K	10K
Q7009	-	-	-	MSD601-RST1	MSD601-RST1	MSD601-RST1	R7050	-	-	-	4.7K	4.7K	4.7K
Q7010	-	-	-	MSD601-RST1	MSD601-RST1	MSD601-RST1	R7052	-	-	-	4.7K	4.7K	4.7K
R1050	-	-	-	15K	15K	15K	R7053	-	-	-	2.2K	2.2K	2.2K
R1051	-	-	-	15K	15K	15K	R7054	-	-	-	2.2K	2.2K	2.2K
R1052	-	-	-	33	33	33	R7055	-	-	-	2.2K	2.2K	2.2K
R1053	-	-	-	33	33	33	R7058	-	-	-	2.2K	2.2K	2.2K
R1054	0	0	0	-	-	-	R7059	-	-	-	1K	1K	1K
R1056	-	-	-	0	0	0	R7062	-	-	-	10K	10K	10K
R5000	47K	47K	47K	68K	68K	68K	R7063	-	-	-	470	470	470
R5001	47K	47K	47K	68K	68K	68K	R7065	-	-	-	100K	100K	100K
R5003	47K	47K	47K	22K	22K	22K	TH5000	-	-	-	THERMISTOR	THERMISTOR	THERMISTOR
R5004	10K	10K	10K	8.2K	8.2K	8.2K	TU1100	BTF-EF412	BTF-EC412	BTF-EC412	BTF-EF412	BTF-EC412	BTF-EC412
R5005	22K	22K	22K	15K	15K	15K	TU1200	BTF-EF412	BTF-EC412	BTF-EC412	BTF-EF412	BTF-EC412	BTF-EC412
R5007	-	-	-	560K	560K	560K							

~ A Board Waveforms ~



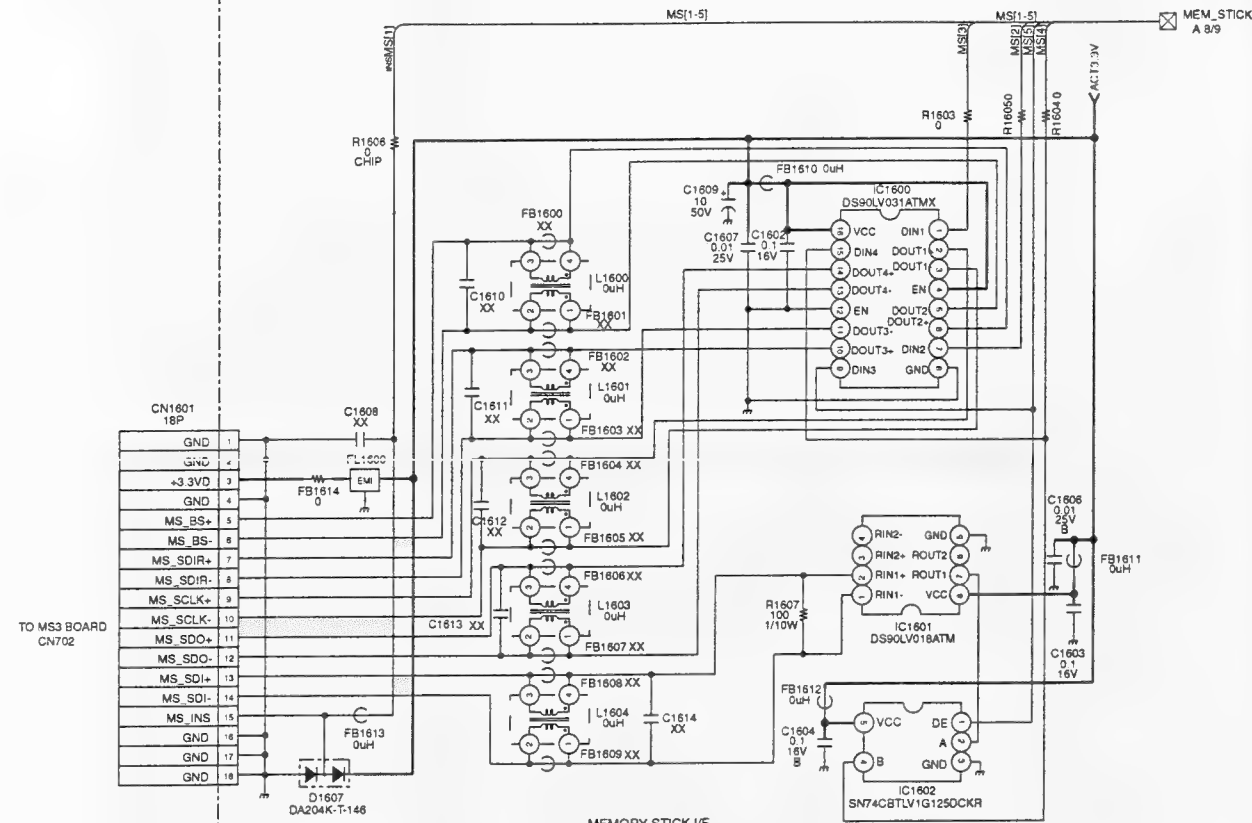




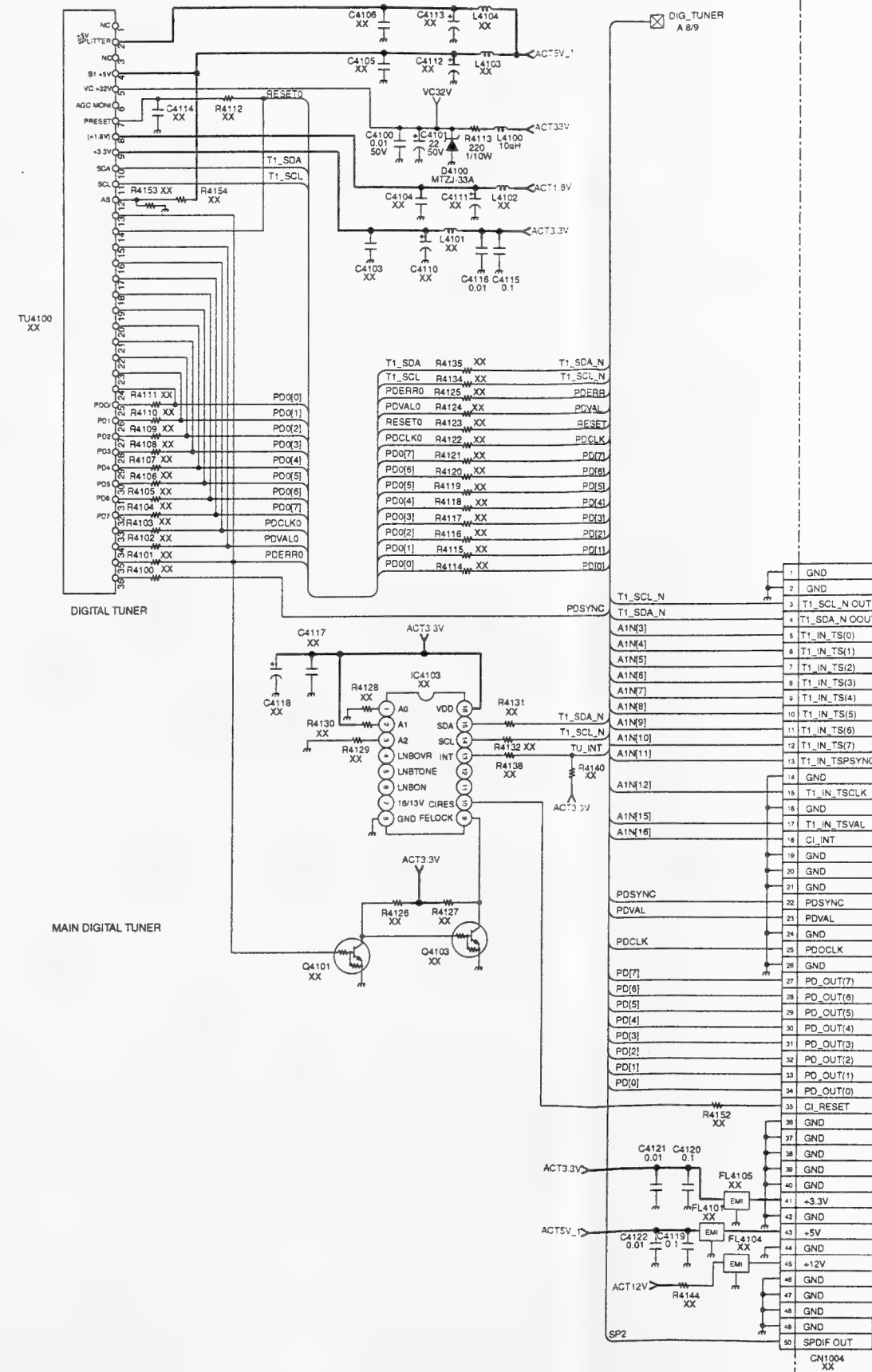


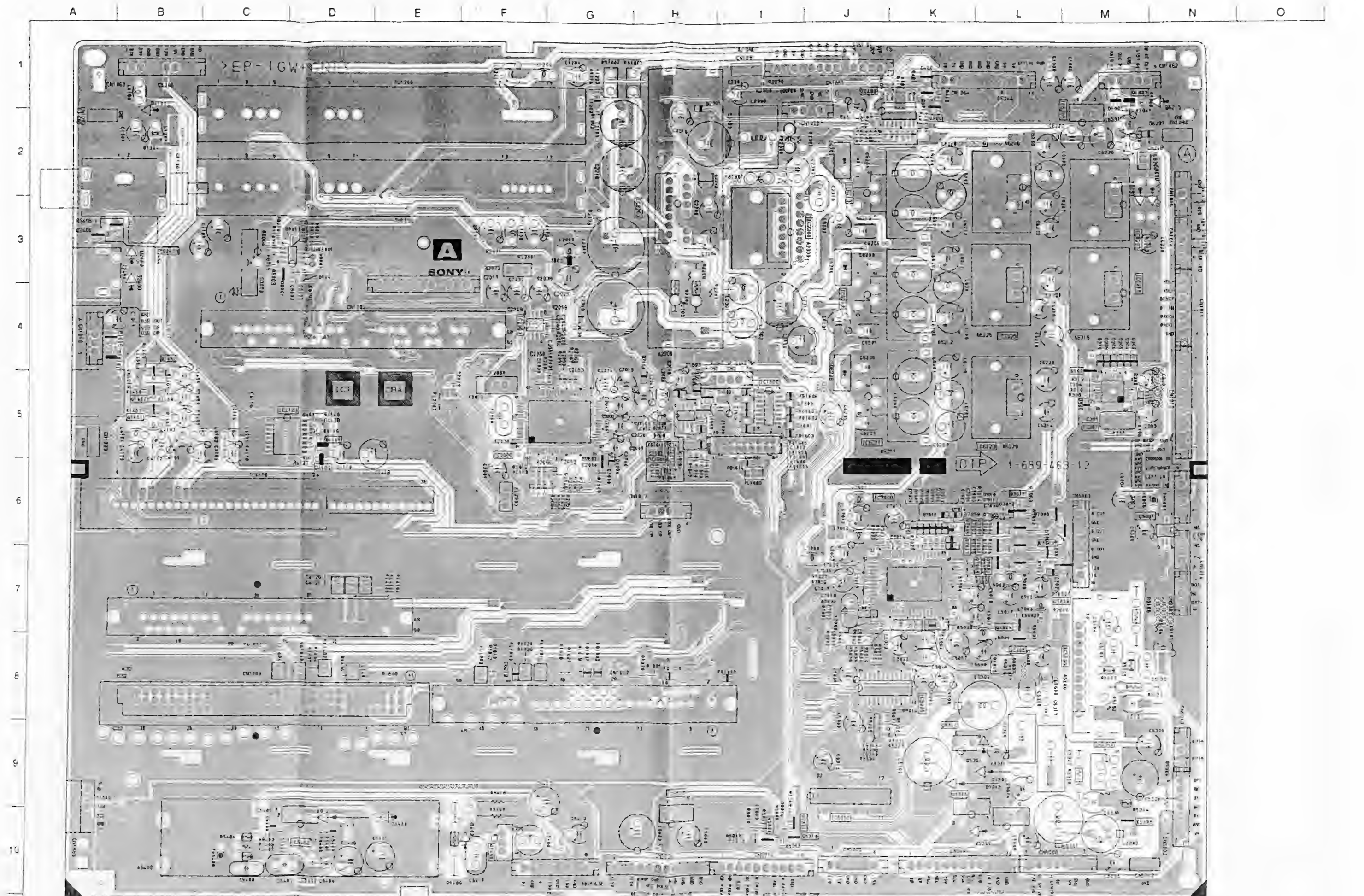
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A 9/9 MEMORY STICK & DIGITAL TUNER

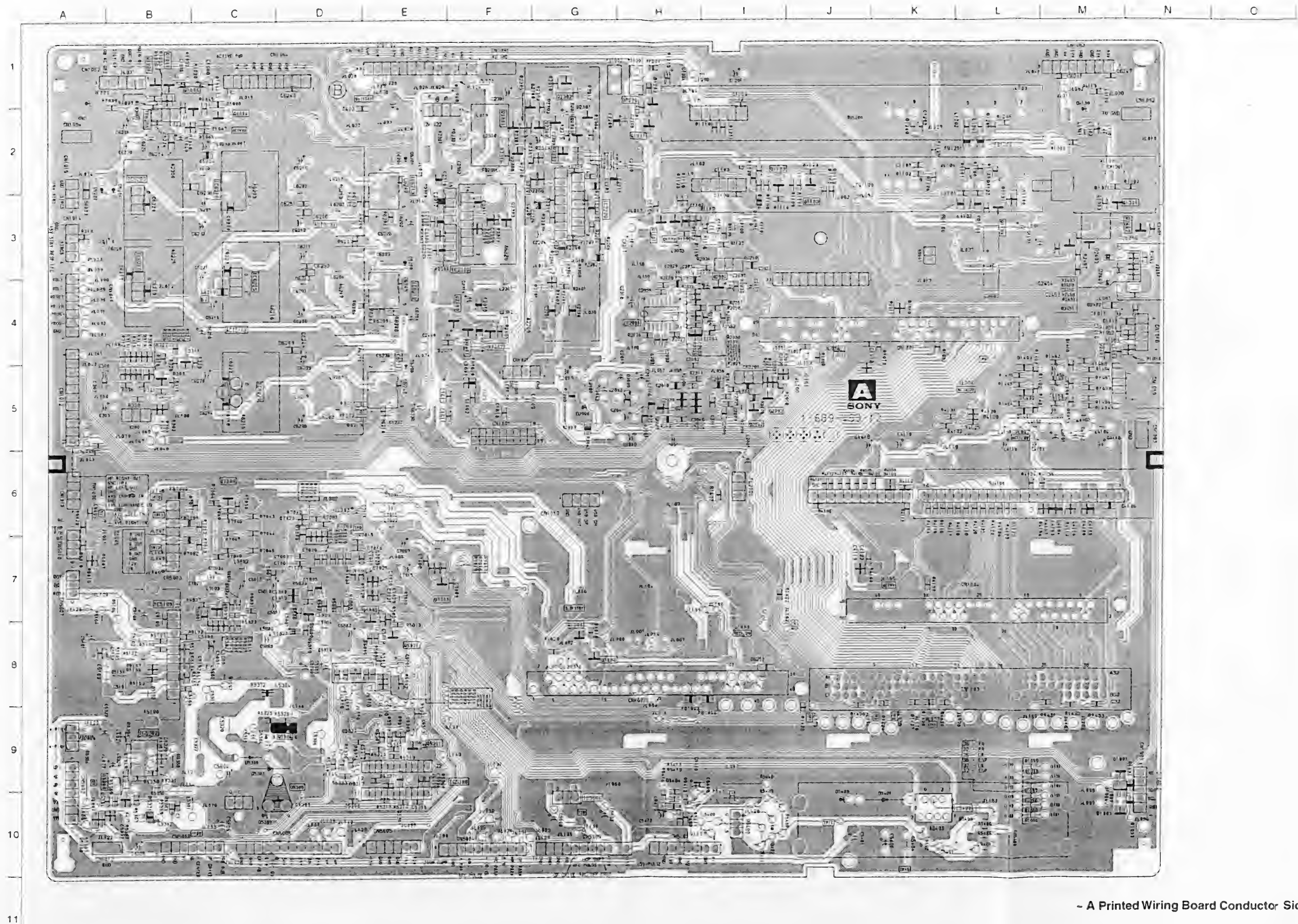


COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL





~ A Printed Wiring Board Conductor Side A ~



- A Printed Wiring Board Conductor Side B -

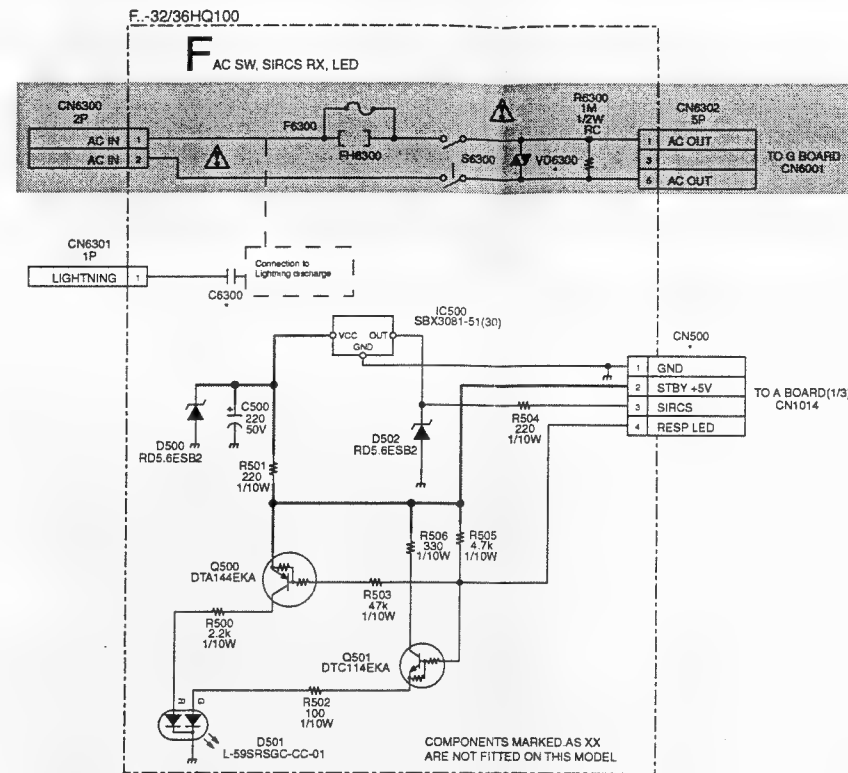


~ C2 Board IC Voltage Table ~

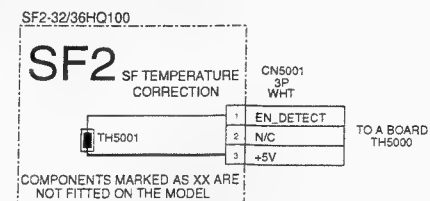
~ SF2 Printed Wiring Board Conductor Side ~



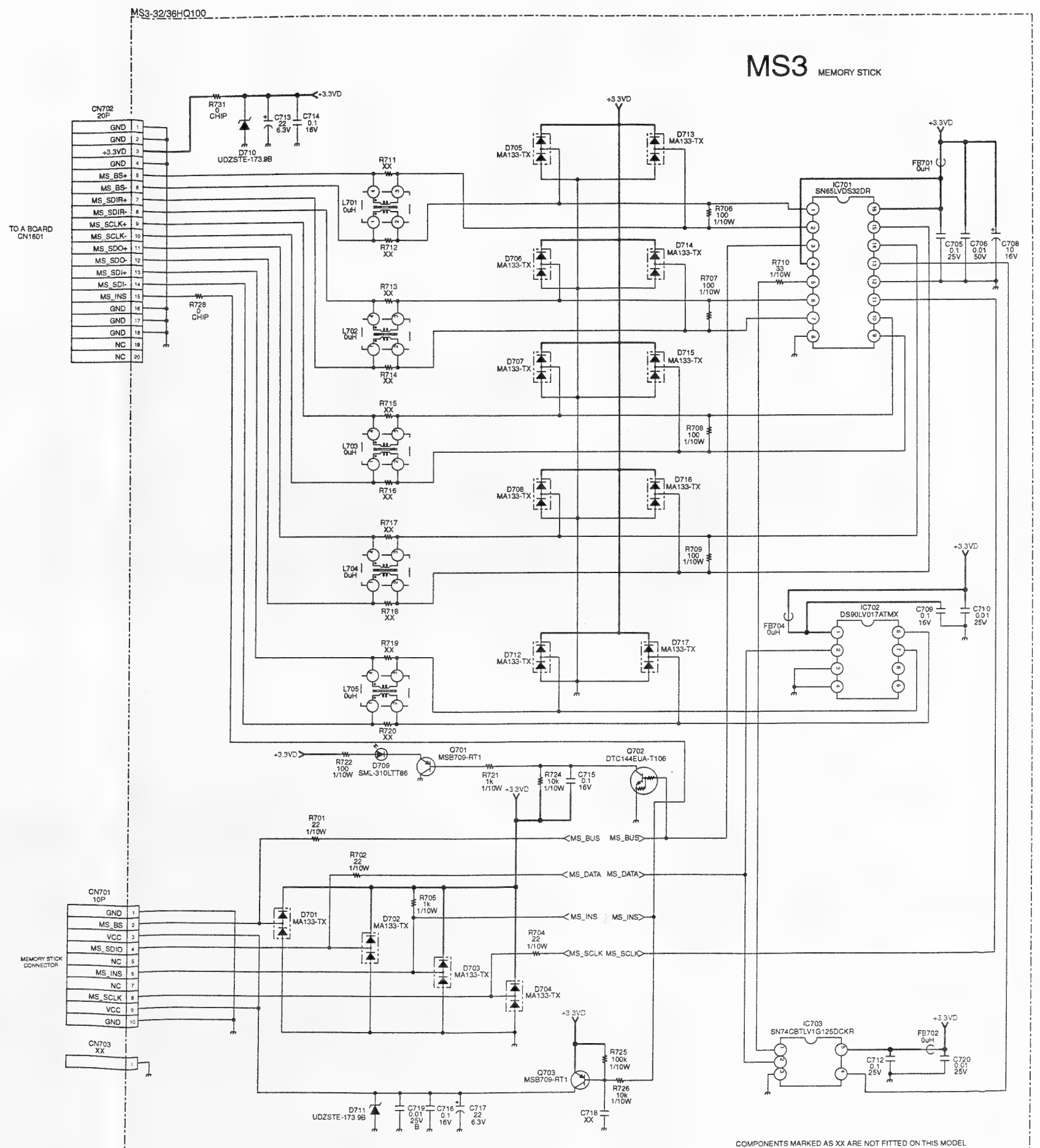
~ F Board Schematic Diagram [AC SW, SIRCS RX, LED] ~



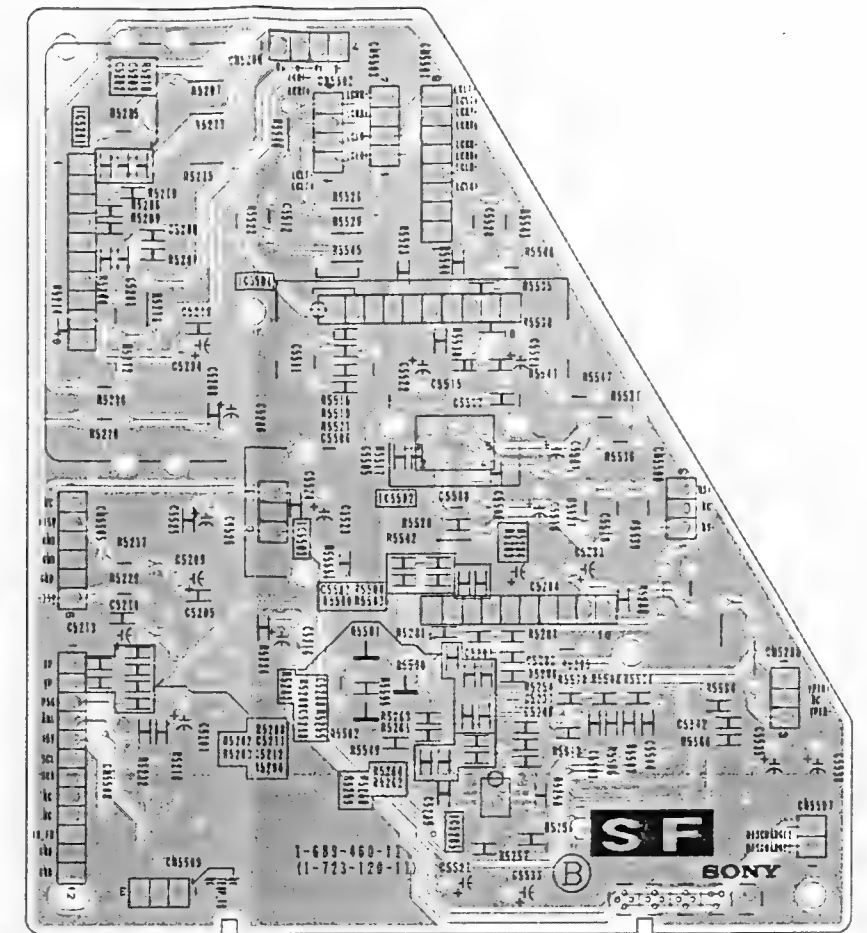
~ SF2 Board Schematic Diagram [SF Temperature Correction] ~



~ MS3 Board Schematic Diagram [Memory Stick] ~



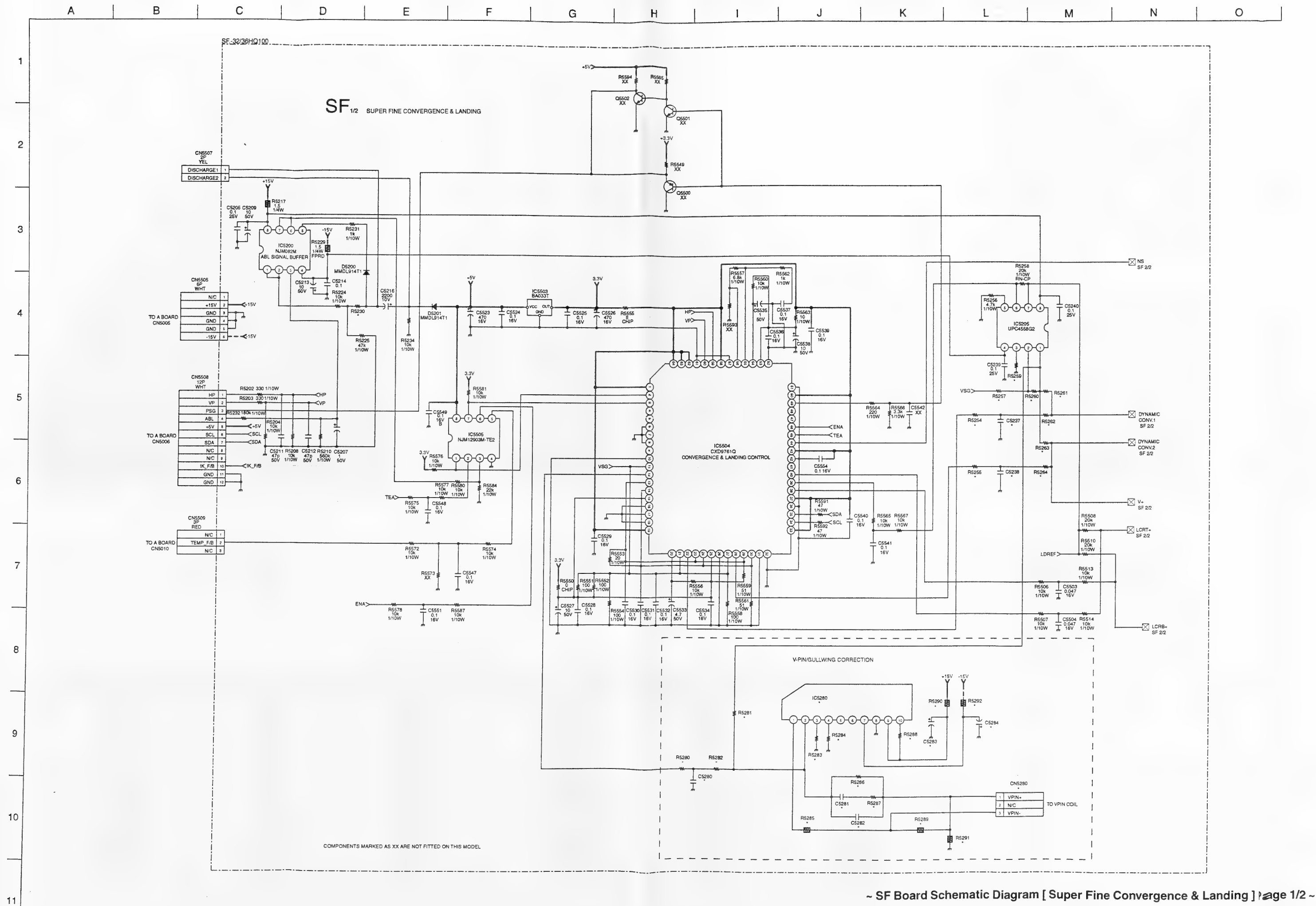
~ SF Printed Wiring Board Conductor Side B ~



~ SF Board Location Table B side ~

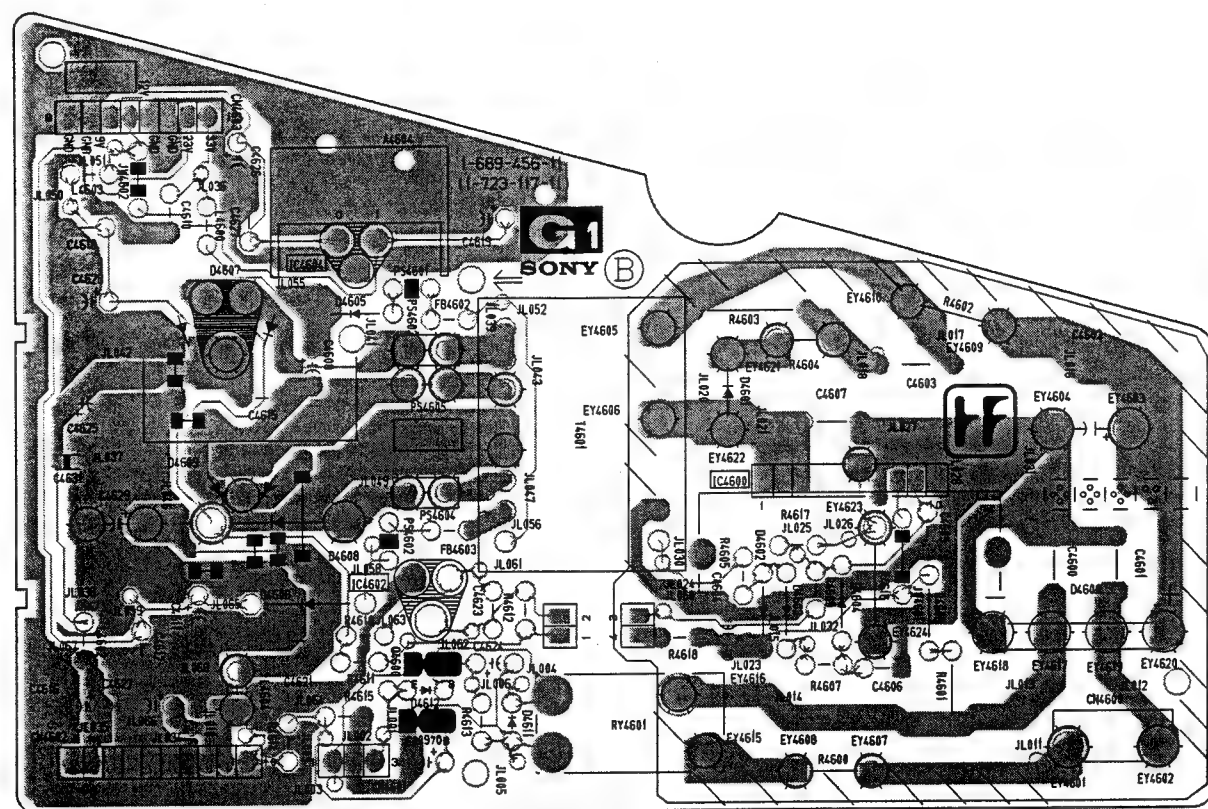
IC		IC5503	L - 4
IC5501	L - 3	IC5505	M - 5
IC5502	M - 4		

Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100
C5200	-	100PF	C5238	-	0.0033UF	R5200	-	5.6K	R5215	-	3.3	R5259	-	4.7K	R5284	-	1.2K
C5201	-	47PF	C5280	-	0.0033UF	R5201	-	2.2K	R5216	-	1	R5260	-	10K	R5285	-	1.5
C5202	-	100PF	C5281	-	100PF	R5205	-	1.5	R5218	-	5.6K	R5261	-	3.3K	R5286	-	5.6K
C5203	-	47UF	C5282	-	47PF	R5206	-	1.2K	R5219	-	2.2K	R5262	-	300	R5287	-	2.2K
C5204	-	100UF	C5283	-	100UF	R5207	-	270	R5220	-	1	R5263	-	3.3K	R5288	-	68K
C5206	-	100UF	C5284	-	100UF	R5209	-	1.2K	R5230	680K	1M	R5264	-	300	R5289	-	270
C5208	-	0.1UF	CN5200	-	PLUG, CONNECT-OR 4P	R5211	-	3.3	R5233	-	51K	R5280	-	3K	R5290	-	1
C5210	-	0.1UF	CN5280	-	PLUG, CONNECT-OR 3P	R5212	-	1.5	R5254	-	3K	R5281	-	3.3K	R5291	-	3.3
C5215	-	0.01UF	IC5201	-	STK391-120	R5213	-	270	R5255	-	3K	R5282	-	300	R5292	-	1
C5237	-	0.0033UF	IC5280	-	STK391-120	R5214	-	68K	R5257	-	10K	R5283	-	1.2K			

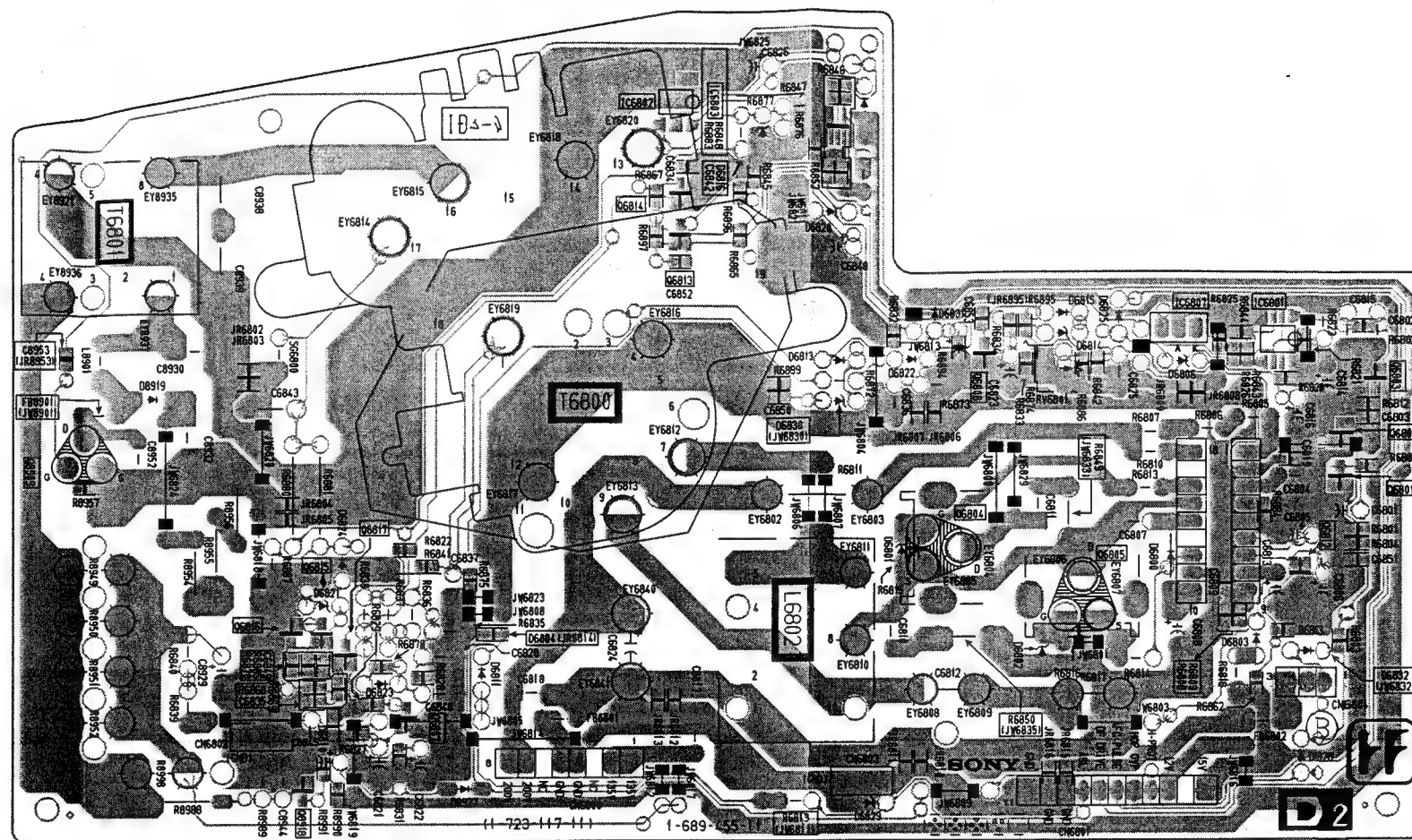




~ G1 Printed Wiring Board Conductor Side ~



~ D2 Printed Wiring Board Conductor Side ~



~ D2 Board IC Voltages ~

Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC6800	1	1.6	IC6802	1-4	0
	2	1.8		5	6.8
	3	2.3		6	6.7
	4	2.5		7	6.7
	5-6	0		8	14.2
	7	4.6	IC6803	1-2	0
	8	13.9		3	1.7
	9	0		4	1.2
	10	10.2		5	0
	11	0	IC6807	1	2.5
IC6801	12	4.4		2	0
	18	196.0		3	2.5
	1	0			
	2	2.5			
	3	2.1			
	4	0			
	5	2.2			
	6	2.5			
	7	0			
	8	14.7			

~ D2 Board Difference Table ~

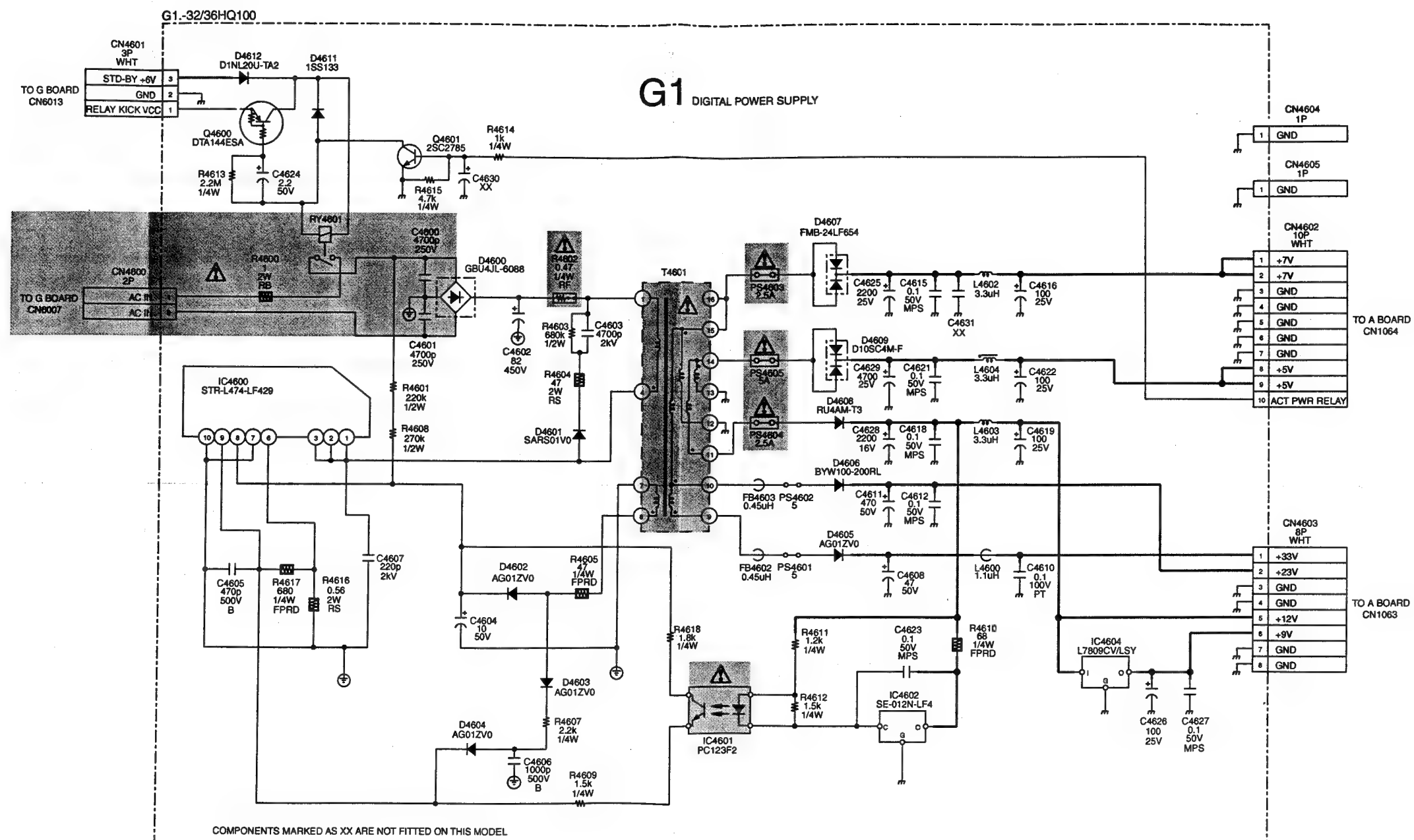
Ref	KV-32HQ100	KV-36HQ100
C8938	-	150PF
IC6800	MCZ3001DA	MCZ3001D
L8901	4.7MH	3.3MH
R6825	150K	-
R6827	33K	56K
R6837	5.6K	6.8K
R6838	5.6K	6.8K
R6840	5.6K	6.8K
R6841	1K	560
R6843	820	1K
R8949	8.2K	4.7K
R8950	8.2K	6.8K
R8951	8.2K	4.7K
R8952	8.2K	4.7K
R8954	100K	33K
R8955	100K	33K
R8956	100K	100K
R8998	8.2K	4.7K

~ D2 Board Location Table ~

DIODE	D6803	O - 5	D6813	L - 3	D6817	L - 2	D6823	J - 5	D8919	H - 3	IC6801	O - 3	TRANSISTOR	Q6804	M - 4	Q6813	K - 2	Q6817	I - 5
D6800	N - 4	D6804	J - 5	D6814	N - 3	D6820	L - 2	D6824	I - 4	D8927	J - 6	IC6802	K - 1	Q6801	O - 4	Q6805	N - 4	Q6814	K - 2
D6801	M - 4	D6806	N - 3	D6815	N - 3	D6821	I - 5	D6825	N - 3	IC		IC6803	L - 2	Q6802	O - 3	Q6807	J - 5	Q6815	I - 4
D6802	N - 5	D6811	J - 5	D6816	L - 2	D6822	M - 3	D6828	O - 5	IC6800	N - 4	IC6807	O - 3	Q6803	O - 3	Q6808	M - 3	Q6816	I - 4
																		Q8909	H - 3
																		Q8918	I - 6

~ D2 Board Semiconductor Voltages ~

Ref	(a)	(b)	(c)
Q6801	0	0.6	0
Q6802	0	0	1.6
Q6803	0	0	1.6
Q6807	0	0.6	0
Q6808	0	0.6	0
Q6813	11.9	11.4	1.2
Q6814	0	0	11.9
Q6815	11.9	11.9	0
Q6816	0	0	11.7
Q6817	11.9	11.7	0
Q8918	0	6.4	0

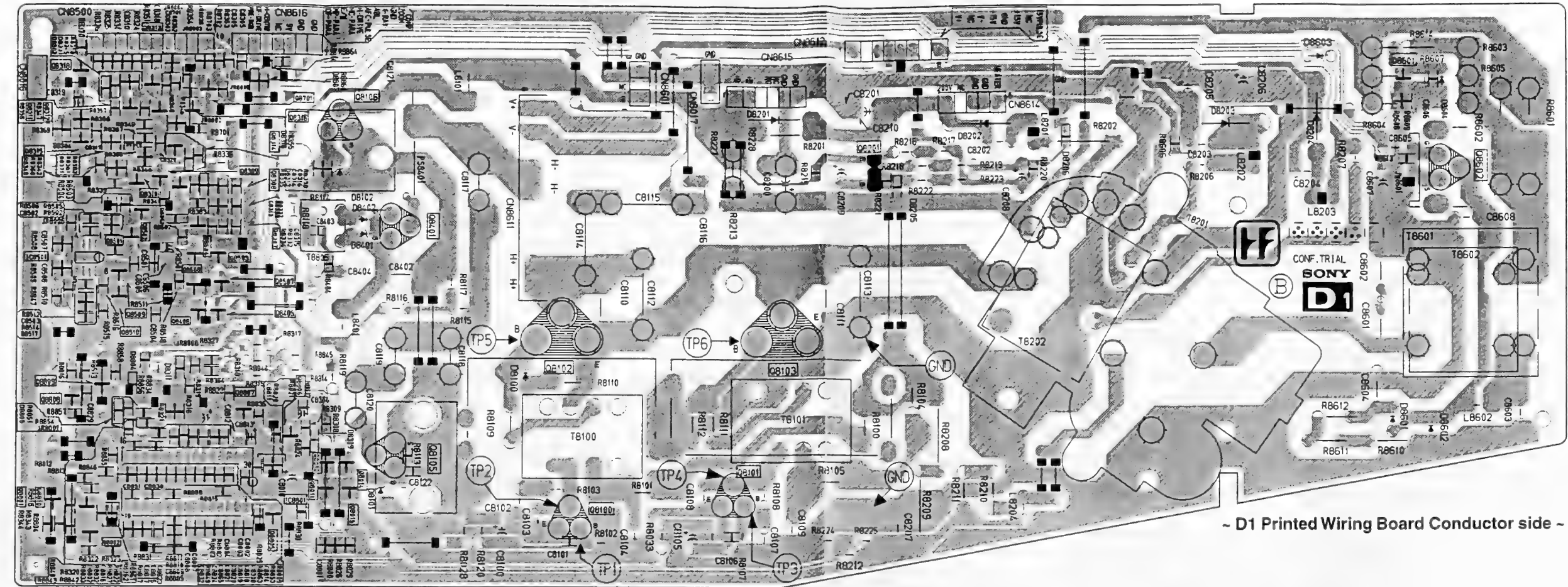


~ G1 Board Schematic Diagram [Digital Power Supply] ~

A B C D E F G H I J K L M N O

~ D1 Board Semiconductor Voltages ~

Ref	(s)	(g)	(d)
Q8105	0	3.2	21.1
Q8106	0	1.1	135.2
Ref	(e)	(b)	(c)
Q8010	4.0	3.9	8.9
Q8011	4.0	3.9	0
Q8014	3.9	3.8	8.9
Q8015	3.9	3.8	0
Q8308	0.9	0.2	0
Q8503	3.2	3.2	8.9
Q8504	3.2	3.2	0
Q8507	1.1	1.0	8.9
Q8508	1.1	1.0	0
Q8701	0.5	0	8.9
Q8806	0	0.7	0
Q8827	4.4	3.8	0
Q8808	0	2.1	0
Q8809	0	0	1.0



~ D1 Printed Wiring Board Conductor side ~

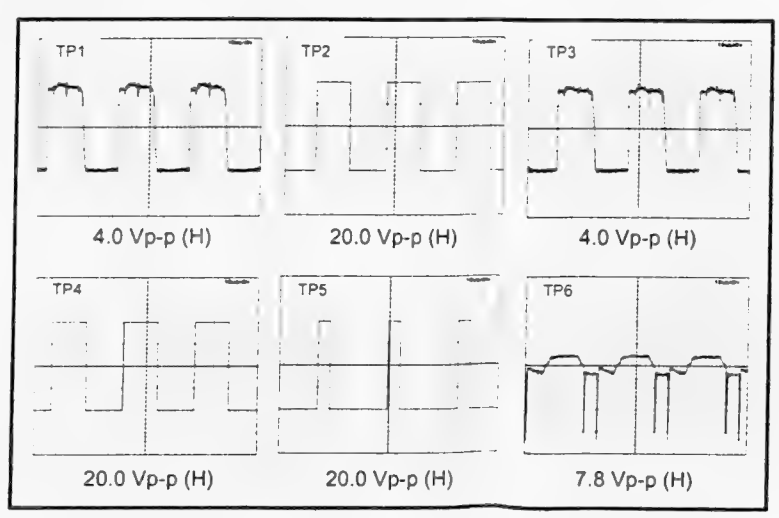
~ D1 Board IC Voltages ~

Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC8801	1	4.4	IC8801	7	3.7	IC8801	13	3.0	IC8801	19	2.6	IC8801	25	4.2
	2	2.7		8	3.7		14	1.0		20	5.5		26	3.8
	3	3.4		9	3.2		15	0		21	2.6		27	2.7
	4	1.4		10	3.2		16	3.2		22	1.0		28	3.9
	5	0		11	1.3		17	1.7		23	1.0		29	3.8
	6	3.0		12	2.1		18	3.2		24	5.5		30	8.8

~ D1 Board Location Table ~

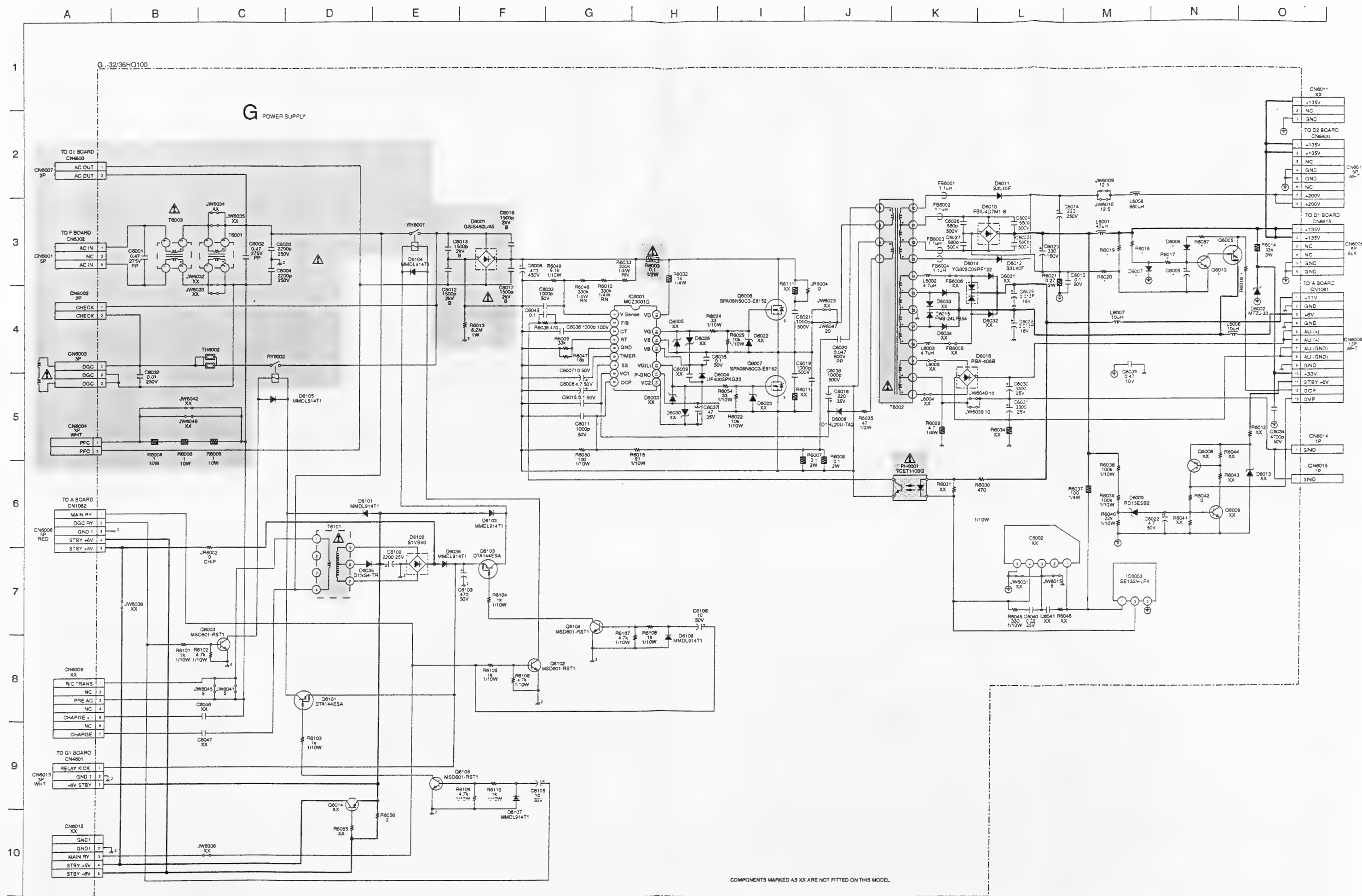
DIODE		TRANSISTOR		Q8105 D - 5		Q8701 C - 1	
D8100	E - 4	D8312	B - 2	Q8010	D - 4	Q8801	A - 5
D8101	D - 5	D8313	C - 3	Q8011	D - 5	Q8802	B - 5
D8102	D - 2	D8802	B - 5	Q8014	D - 4	Q8806	C - 4
D8201	H - 2	D8804	B - 4	Q8015	D - 5	Q8807	C - 4
D8202	I - 2	D8805	B - 4	Q8100	F - 5	Q8808	B - 4
D8203	K - 2	IC	IC	Q8101	G - 5	Q8809	B - 4
D8204	L - 2			Q8102	F - 4	Q8810	B - 5
D8309	D - 4	IC8501	A - 3	Q8103	H - 4		
		IC8801	C - 5	Q8508	C - 3		

~ D1 Board Waveforms ~



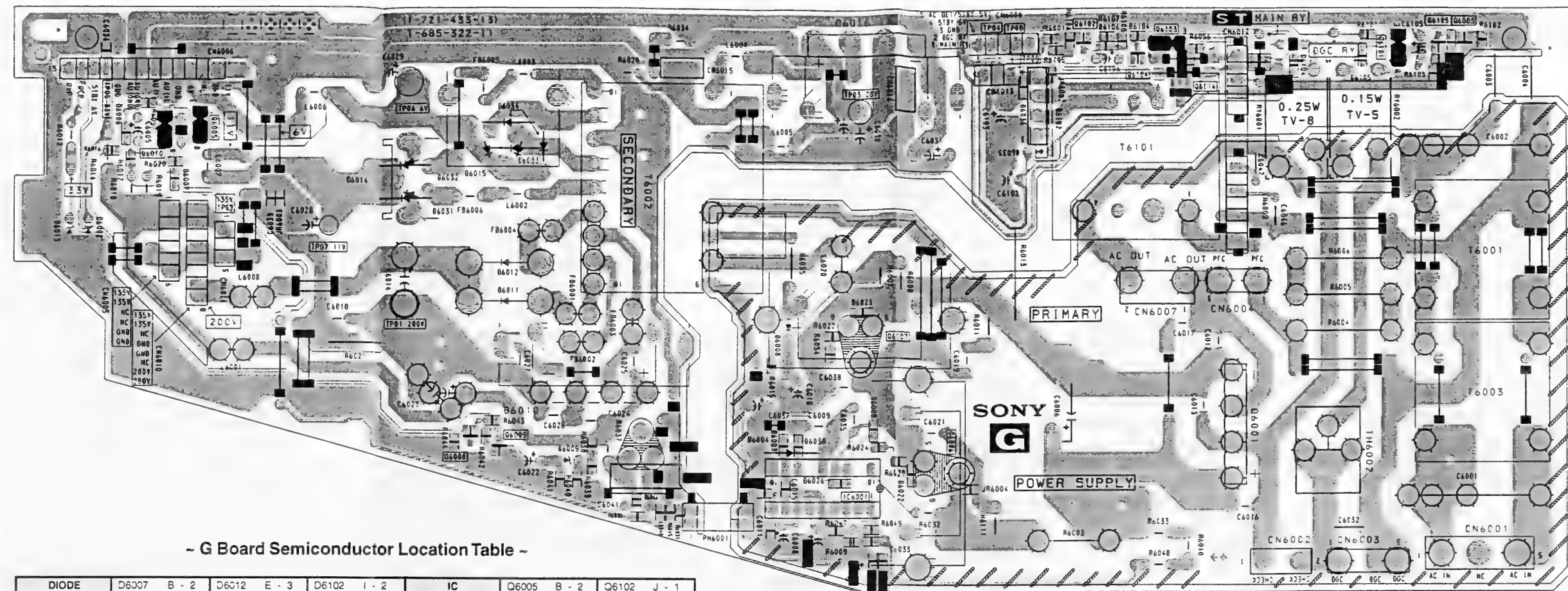
~ D1 Board DifferenceTable ~

Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100	Ref	KV-32HQ100	KV-36HQ100
C8110	220PF 10.00% 2KV	470PF 5.00% 2KV	D8205	-	MMDL914T1	Q8401	-	IRF1740G	R8213	-	1.5 5% 2W	R8345	-	22K 5% 1/10W
C8111	680PF 3.00% 1.5	470PF 3.00% 1.5	D8206	-	MMDL914T1	Q8405	-	MSD601-RS-T1	R8215	-	1K 0.5% 1/10W	R8347	-	33K 5% 1/10W
C8119	0.18UF 3.00% 1.5	0.22UF 3.00% 1.5	D8401	-	RD15ESB2	Q8406	-	MSB709-RT1	R8216	-	39K 1% 1/4W	R8404	-	47 5% 1/10W
C8208	-	100UF 20.00% 25V	D8402	-	1SS133T-77	Q8509	-	MSD601-RS-T1	R8217	-	39K 1% 1/4W	R8514	-	10K 5% 1/10W
C8209	-	100UF 20.00% 25V	D8603	-	1SS133T-77	Q8510	-	2SA103AK-T146R	R8218	-	100K 1% 1/4W	R8515	-	4.7K 5% 1/10W
C8402	-	0.047UF 5.00% 400	D8604	-	1SS133T-77	Q8601	-	MSD601-RS-T1	R8219	-	100K 1% 1/4W	R8516	-	4.7K 5% 1/10W
C8403	-	470PF 10.00% 50V	D8807	-	1SS355TE-1-7	R8101	3.9K 5% 2W	3.3K 5% 2W	R8220	-	22K 5% 1/10W	R8517	1K 5% 1/10W	-
C8404	-	1UF 5.00% 50V	L8401	-	4.7MH	R8104	4.7K 5% 2W	3.3K 5% 2W	R8221	-	10K 5% 1/10W	R8606	-	22K 5% 1/10W
C8504	0.0022UF 10.00% 50V	0.001UF 10.00% 50V	PS8401	-	1.6A	R8113	-	470K 5% 1/10W	R8222	-	100K 1% 1/4W	R8607	-	22K 5% 1/10W
C8607	-	10UF 20.00% 50V	Q8106	STP5NB40FP	IRF1740G	R8114	-	100K 5% 1/10W	R8223	-	100K 1% 1/4W	R8608	-	100K 5% 1/10W
C8815	-	0.01UF 10.00% 25V	Q8201	-	2SA1208S-T-P	R8118	100 5% 1/4W	47 5% 1/4W	R8335	4.7K 0.5% 1/10W	8.2K 0.5% 1/10W	R8609	-	22K 5% 1/10W



~ G Board Schematic Diagram [Power Supply] ~

A B C D E F G H I J K L M N O



- G Board Semiconductor Location Table -

DIODE		D6007	B - 2	D6012	E - 3	D6102	I - 2	IC		Q6005	B - 2	Q6102	J - 1
D6001	K - 4	D6008	G - 3	D6014	D - 2	D6104	K - 1	IC6001	H - 5	Q6006	H - 4	Q6103	J - 1
D6002	A - 2	D6009	E - 4	D6015	E - 2	D6105	L - 1	IC6003	F - 4	Q6007	H - 3	Q6104	J - 1
D6004	G - 4	D6010	E - 4	D6016	H - 1	D6106	J - 1	TRANSISTOR		Q6010	B - 2	Q6105	M - 1
D6006	B - 2	D6011	E - 3	D6035	I - 2	D6107	M - 1	Q6003 M - 1		Q6101	L - 1		

- G Board IC Voltages -

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC6003	1	134.0
	2	11.3
	3	0

- G Board Semiconductor Voltages -

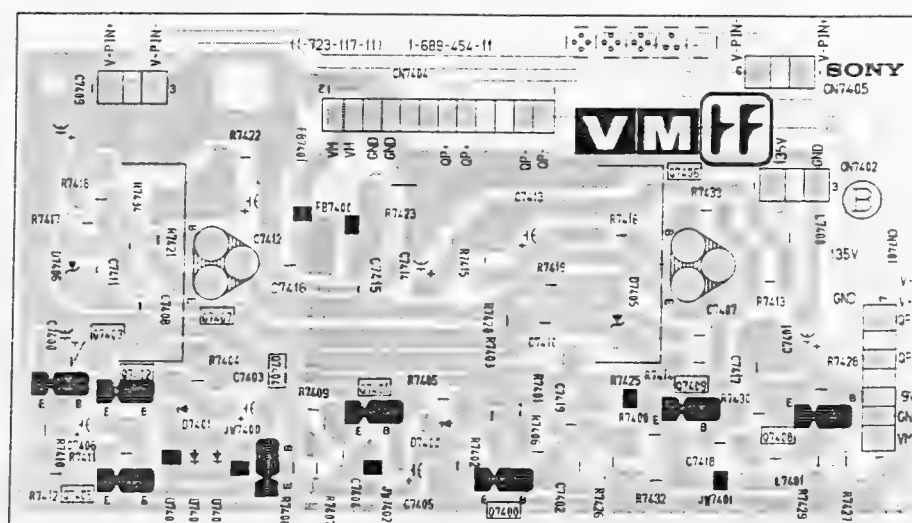
Ref	(e)	(b)	(c)
Q6003	0	0.3	10.9
Q6005	7.1	6.9	0.6
Q6010	0	0.5	6.9
Q6101	23.6	23.6	11.0
Q6102	0	0.7	0
Q6103	23.7	23.4	10.4
Q6104	0	0	23.4
Q6105	0	0	23.6

- G Board Difference Table -

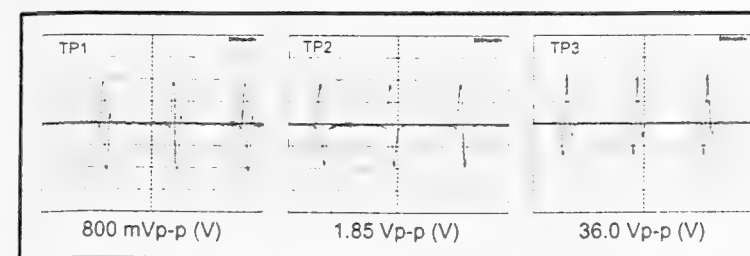
Ref	KV-32HQ100	KV-36HQ100
C6005	22UF	-
D6006	MMDL914T1	-
D6007	MMDL914T1	-
Q6005	DTA144ESA	-
Q6010	2SC2785-HFE	-
R6016	1K	-
R6017	10K	-
R6018	470K	-
R6019	330K	-
R6020	820	-
R6057	4.7K	-

- G Printed Wiring Board Conductor side -

- VM Printed Wiring Board Conductor side -

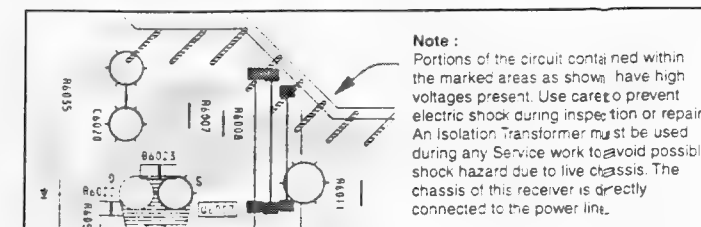


- VM Board Waveforms -



- VM Board Semiconductor Voltages -

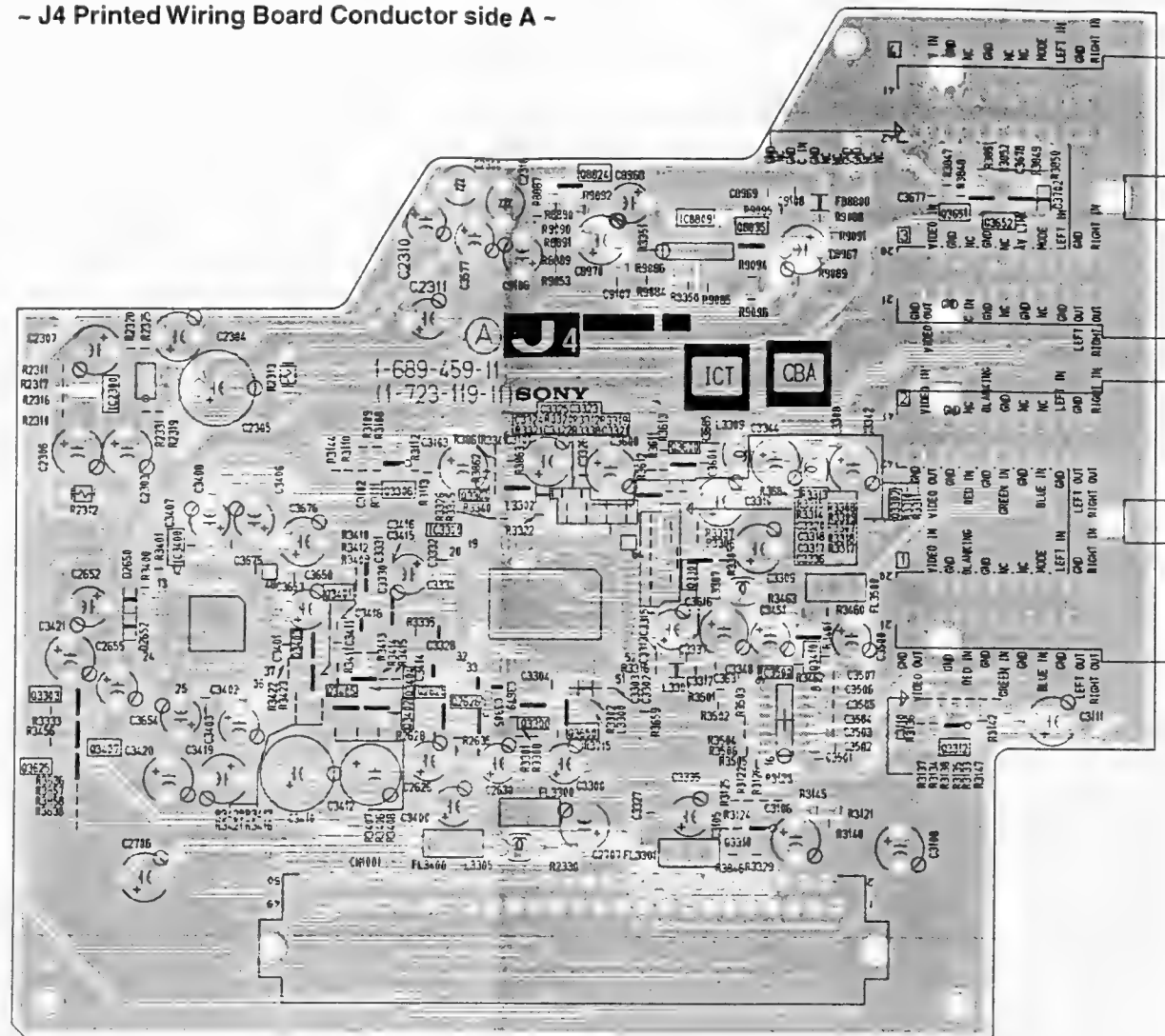
Ref	(e)	(b)	(c)
Q7400	0.9	1.5	8.6
Q7401	0.9	1.6	5.0
Q7402	5.8	6.4	8.8
Q7403	5.6	5.8	8.8
Q7404	5.6	5.0	0
Q7405	5.6	5.6	0
Q7406	133.9	133.6	67.2
Q7407	1.0	1.3	67.2
Q7408	3.9	3.1	3.9
Q7409	3.9	3.2	8.8



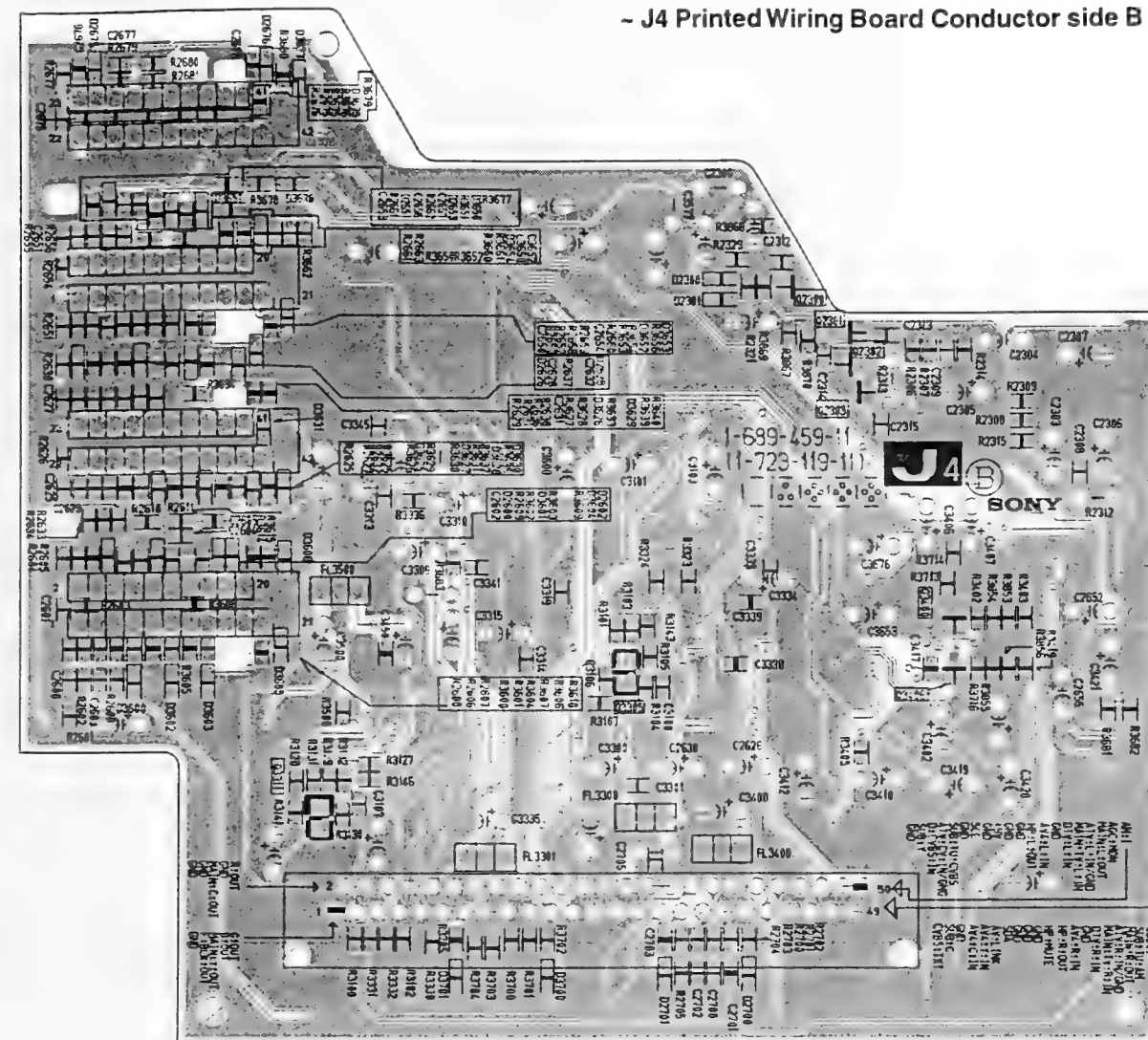
1
2
3
4
5
6
7
8
9
10
11



~ J4 Printed Wiring Board Conductor side A ~



~ J4 Printed Wiring Board Conductor side B ~



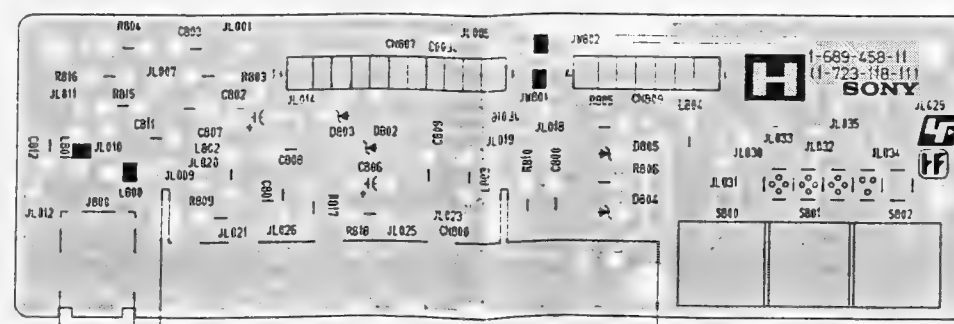
~ J4 Board Location Table A side ~

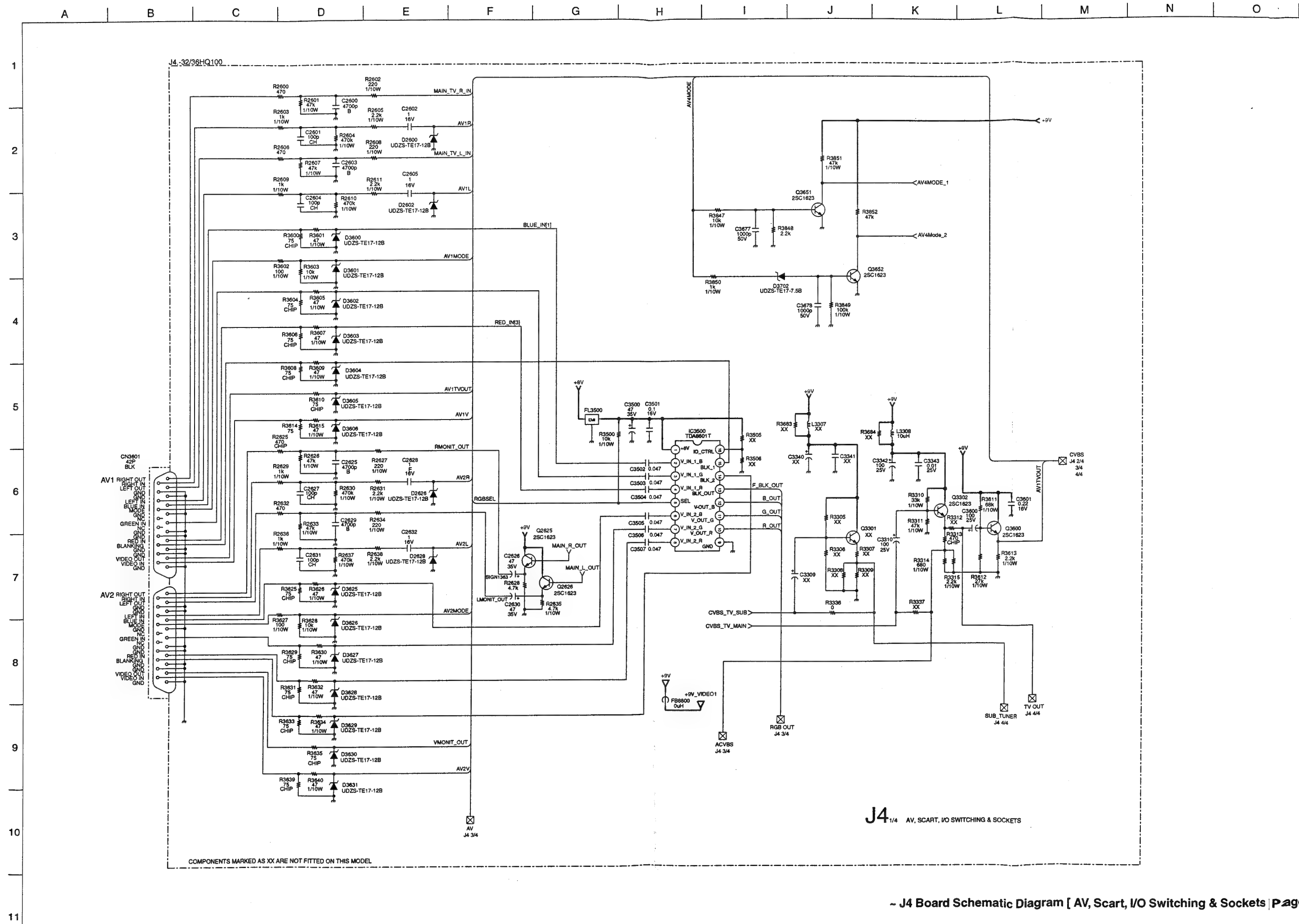
DIODE	IC	IC3500 E - 5	Q3300 D - 5	Q3310 E - 6	Q3403 C - 4	Q3410 E - 4	Q3651 F - 2
D2650 B - 4	IC2300 B - 3	TRANSISTORS	Q3302 F - 4	Q3312 F - 5	Q3404 C - 5	Q3600 E - 3	Q3652 F - 2
D2652 B - 4	IC3300 C - 4		Q3303 A - 5	Q3401 C - 4	Q3405 C - 5	Q3625 A - 5	Q8824 D - 2
D3702 G - 2	IC3400 B - 4		Q3306 C - 4	Q3402 C - 5	Q3407 A - 5	Q3650 D - 5	

~ J4 Board Location Table B side ~

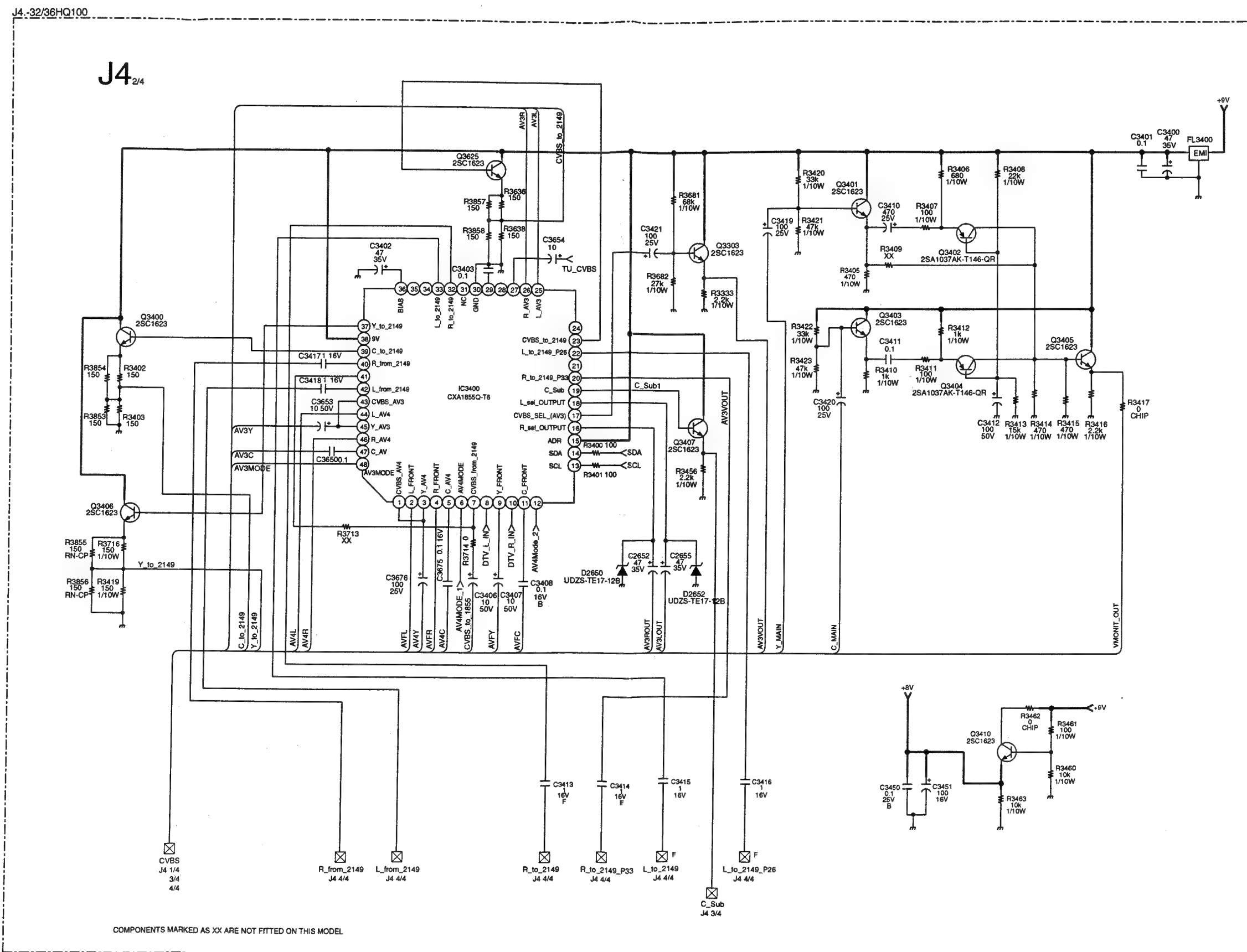
DIODE	D2675 I - 1	D3603 I - 5	D3627 K - 3	D3652 K - 3	D3700 K - 6	Q2303 M - 3
D2300 L - 2	D2676 I - 1	D3604 K - 4	D3628 K - 3	D3653 J - 2	D3701 J - 6	Q3305 K - 5
D2600 K - 4	D2700 L - 6	D3605 I - 5	D3630 K - 3	D3654 K - 2	TRANSISTOR	Q3311 I - 5
D2602 K - 4	D2701 L - 6	D3606 J - 4	D3631 J - 3	D3675 J - 2		Q3400 M - 4
D2626 K - 3	D3601 K - 4	D3625 J - 3	D3650 K - 2	D3676 J - 2		Q3406 M - 5
D2651 J - 2	D3602 I - 5	D3626 K - 3	D3651 I - 2	D3677 J - 1	Q2302 M - 3	

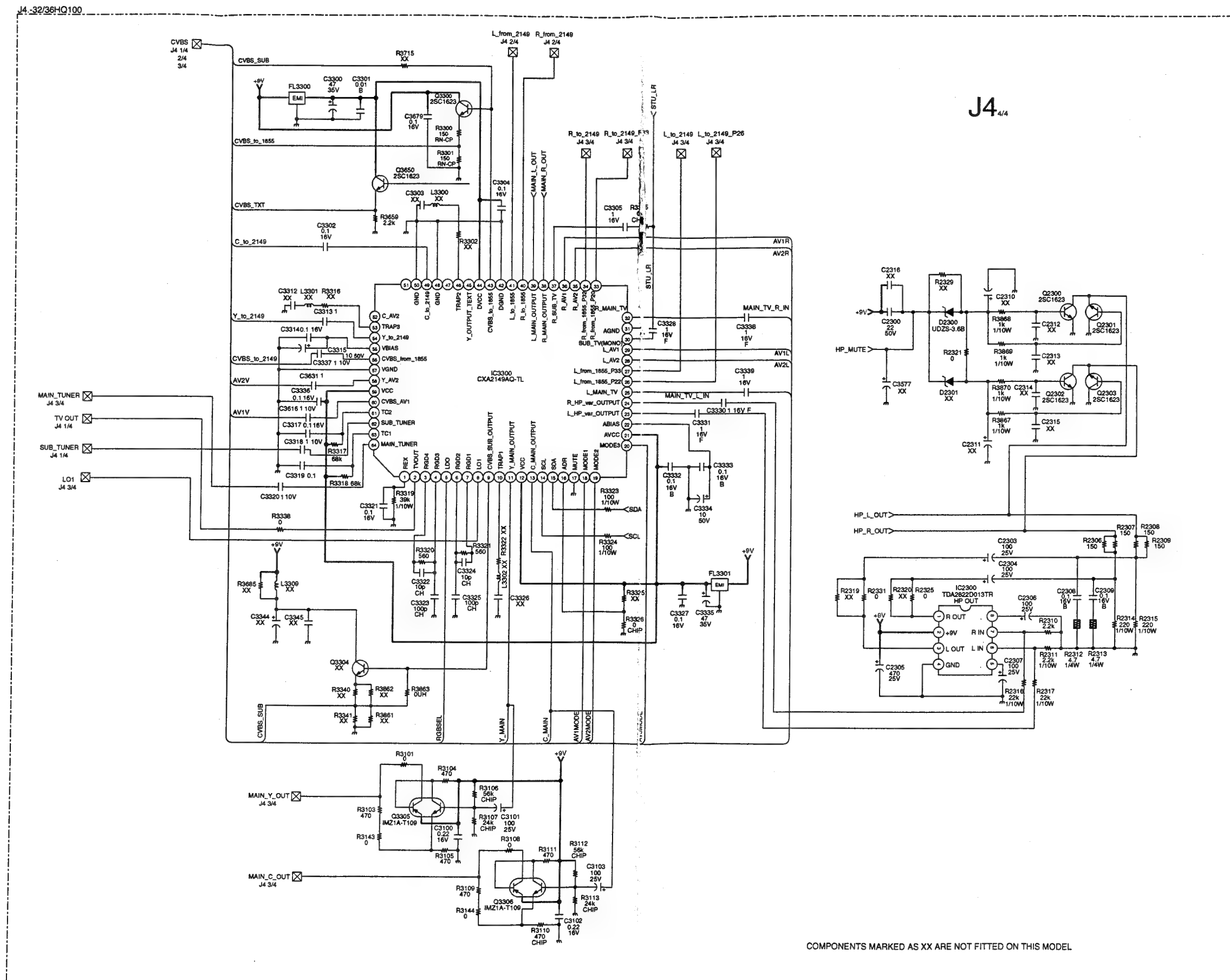
~ H Printed Wiring Board Conductor side ~





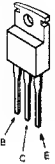
A B C D E F G H I J K L M N O



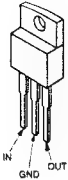


5-4. SEMICONDUCTORS

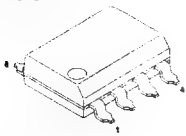
BA033T



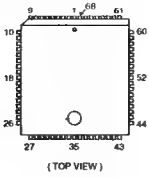
BA05T



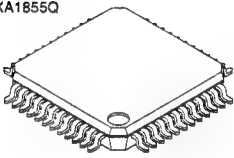
DS90LV017ATMX
DS90LV018ATMX



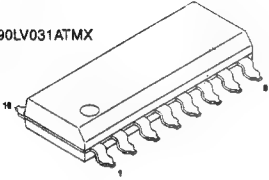
MSP3411G-QA-B11



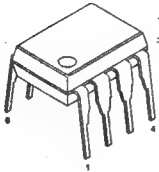
CXA1855Q



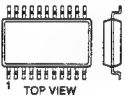
DS90LV031ATMX



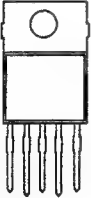
NJM082M



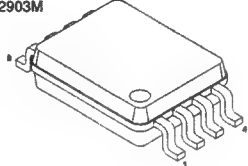
CXA1875AM-T4
LM358D
NJM3403AM
TDA2822D013TR



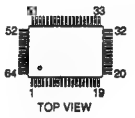
LA6500-FA



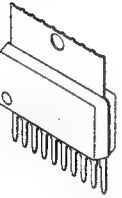
NJM2903M



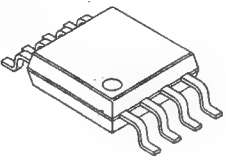
CXA2149AQ-TL



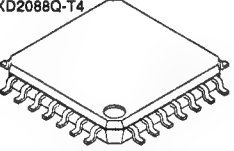
LA6510



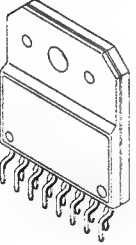
NJM2904M



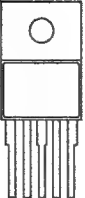
CXD2088Q-T4



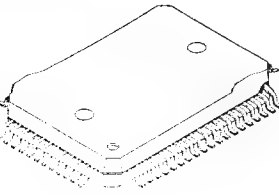
LM1876TF



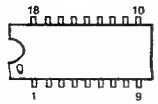
PQ1CG2032FZ



CXD9761Q



MCZ3001D
MCZ3001DA

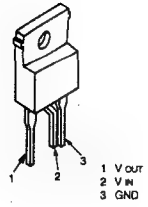


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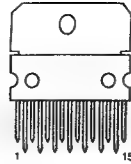


5-5 IC BLOCK DIAGRAMS

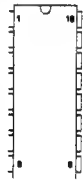
SE135N-LF4



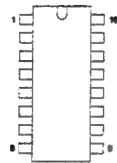
TDA7482



SN65LVDS32DR



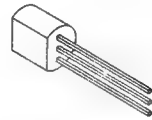
TDA8601T



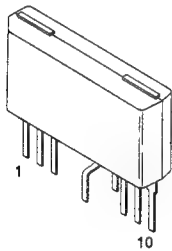
SN74CBTLV1G125DCKR



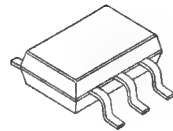
TL1431CZ-AP



STR-L474-LF429



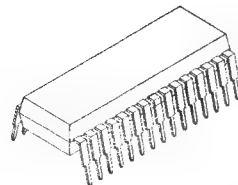
TLV431AIDBV



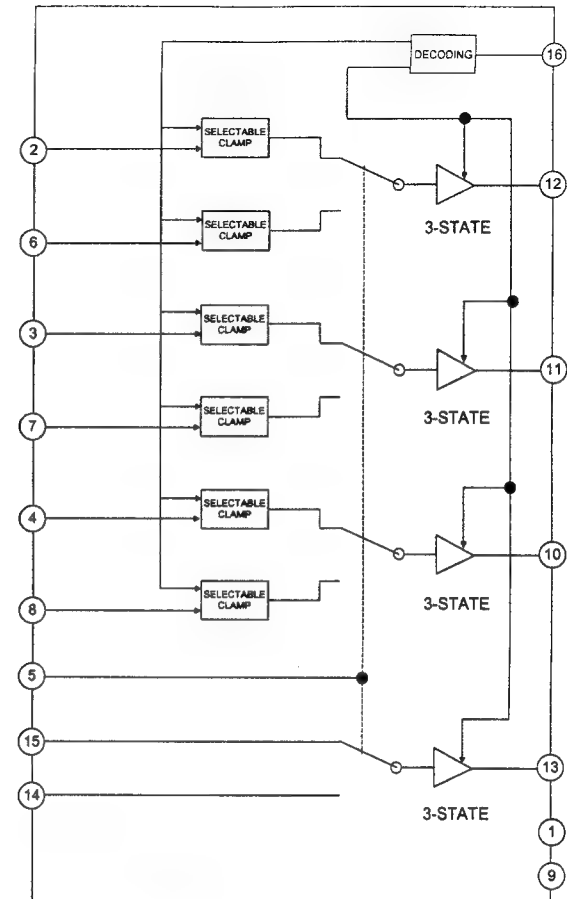
TDA6120Q/N2/S1



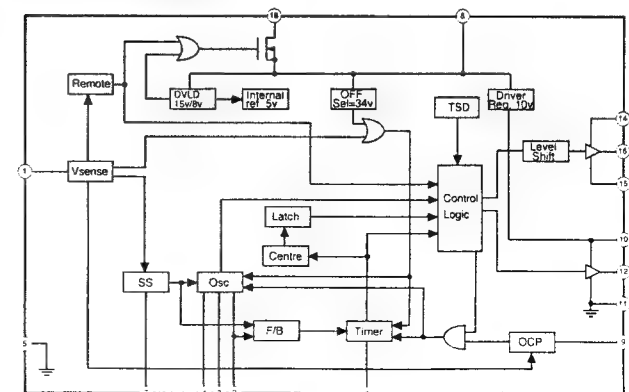
UPC1898CT-A



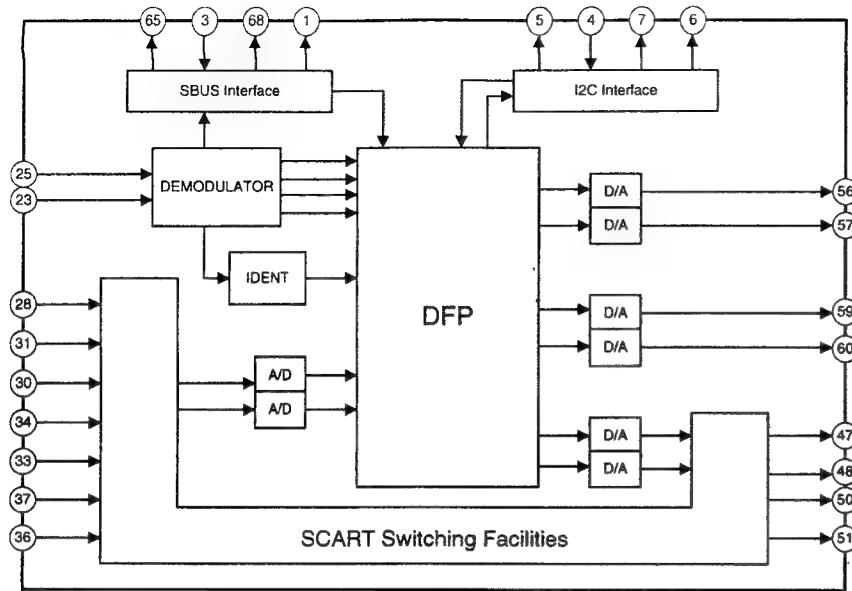
J4 BOARD IC3500 TDA8601T



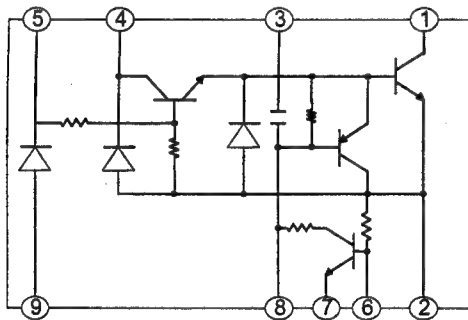
G BOARD IC6001 MCZ3001D
D2 BOARD IC6800 MCZ3001D



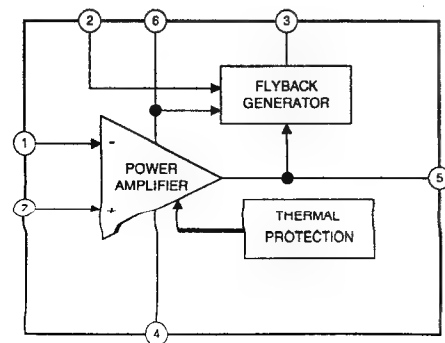
A BOARD IC2000 MSP3411G



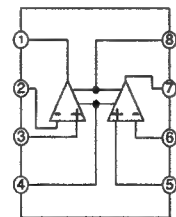
G BOARD IC6003 SE135N-LF4



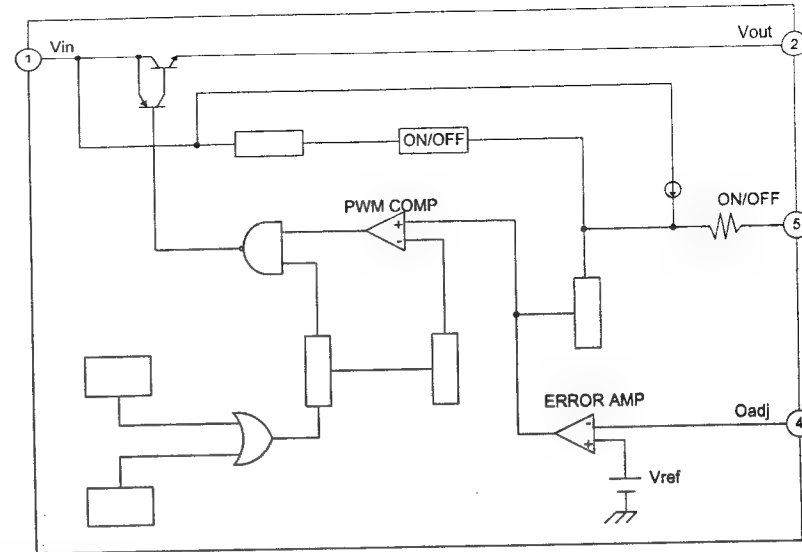
A BOARD IC5400 STV9379



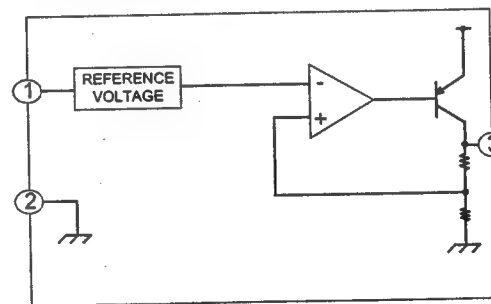
D1 BOARD IC8501 LM358



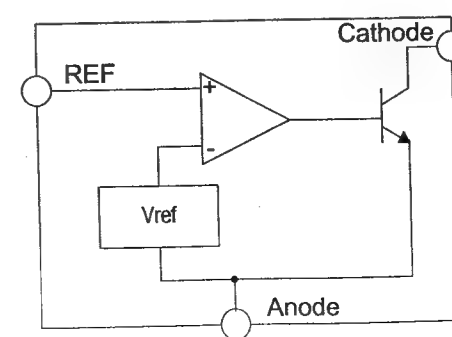
A BOARD IC6211/IC6212/IC6213 PQ1CG2032FZ



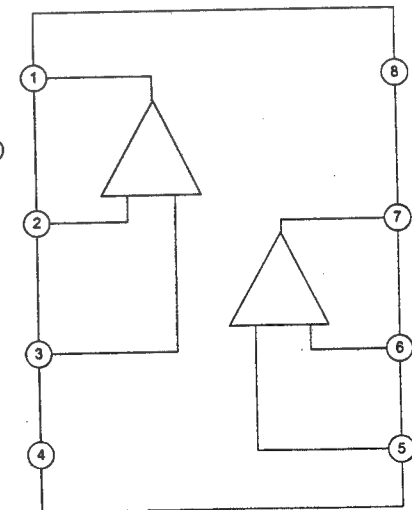
A BOARD IC6203/IC5600 BA033T/BA12T
SF BOARD IC5503 BA033T



D2 BOARD IC6803/IC6807 TLV431



D2 BOARD IC6801/IC6802 NJM2903/NJM2904



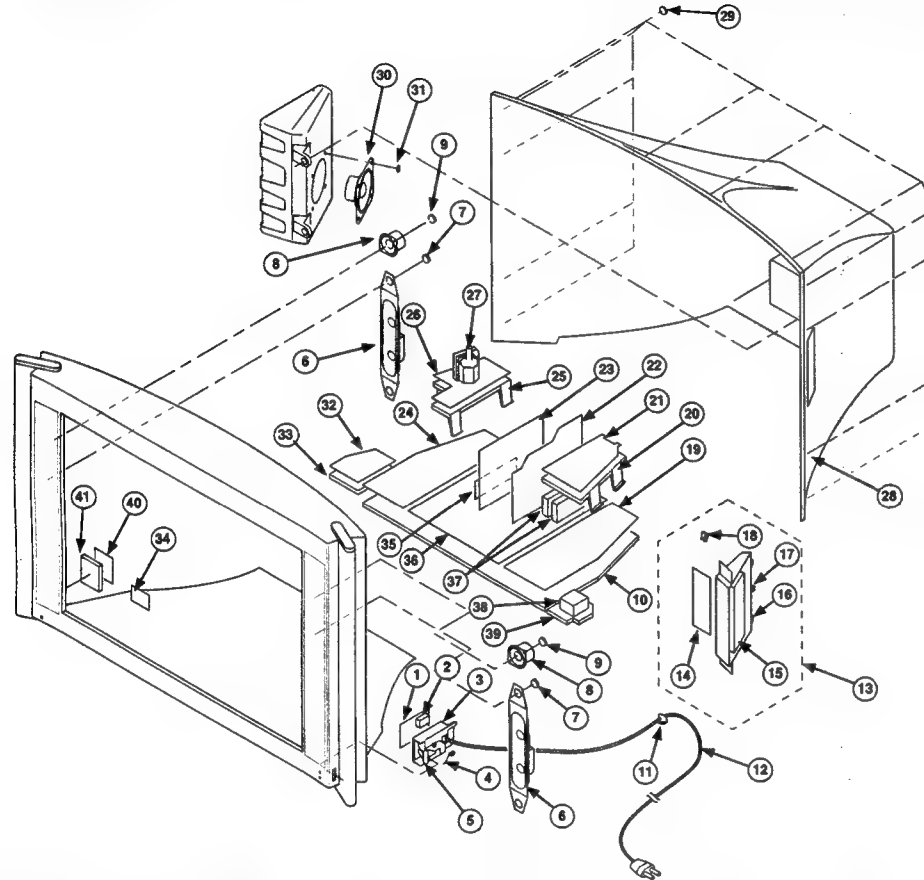
SECTION 6 EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS



Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

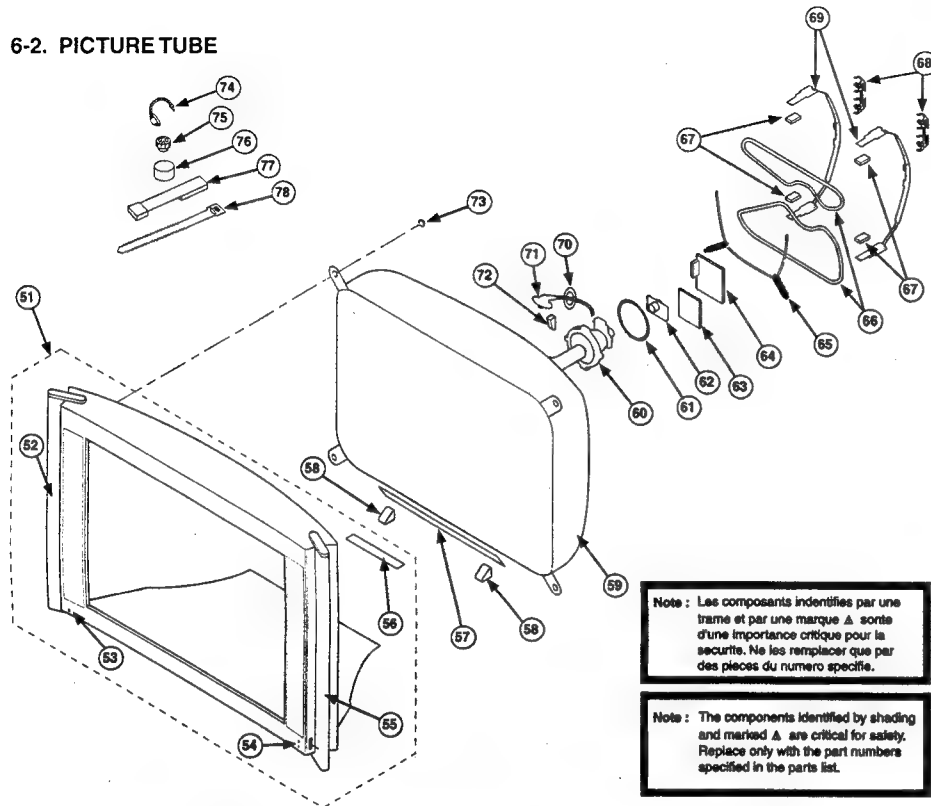
REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
24	*A-1405-539-A	D1 BOARD, COMPLETE	(KV-32HQ100B/E/K)	33	*4-395-036-01	SF BRACKET	
25	*A-1405-507-A	D1 BOARD, COMPLETE	(KV-36HQ100B/E/K)	34	*A-1410-666-A	SF2 BOARD, COMPLETE	
26	*A-1405-540-A	D2 BOARD, COMPLETE	(KV-32HQ100B/E/K)	35	*A-1405-501-A	B BOARD, COMPLETE	
	*A-1405-509-A	D2 BOARD, COMPLETE	(KV-36HQ100B/E/K)	36	*A-1302-431-A	A BOARD, COMPLETE	(KV-32HQ100B)
27	Δ 1-453-444-21	TRANSFORMER ASSY. FLYBACK (HX-6020//E284)			*A-1302-304-A	A BOARD, COMPLETE	(KV-32HQ100E/K)
28	4-095-048-01	COVER, REAR	(KV-32HQ100B/E/K)		*A-1302-418-A	A BOARD, COMPLETE	(KV-36HQ100B)
	4-095-019-01	COVER, REAR	(KV-36HQ100B/E/K)		*A-1302-293-A	A BOARD, COMPLETE	(KV-36HQ100E/K)
29	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3		37	8-598-536-20	FRONT END BTF-EF412	(KV-32/36HQ100B)
30	1-825-213-21	LOUDSPEAKER (10CM)			8-598-534-10	FRONT END BTF-EC412	(KV-32/36HQ100E/X)
31	4-058-870-01	SCREW, (4X16) W(+)P TAPPING		38	1-424-855-11	COIL, CHOKO 29MMH	
32	*A-1410-377-A	SF BOARD, COMPLETE	(KV-32HQ100B/E/K)	39	4-206-384-11	BRACKET, PPC	
	*A-1405-506-A	SF BOARD, COMPLETE	(KV-36HQ100B/E/K)	40	*A-1405-513-A	MS3 BOARD, COMPLETE	
				41	*4-095-032-01	NS BRACKET	

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
1	*A-1405-851-A	F BOARD, COMPLETE	(KV-32HQ100B/E/K)	13	A-1604-541-A	DOOR COMPL. ASSY	(14-18)
2	*A-1405-512-A	F BOARD, COMPLETE	(KV-36HQ100B/E/K)	14	*A-1405-514-A	H BOARD, COMPLETE	
3	*4-095-033-01	F BRACKET		15	4-095-031-01	DOOR	
4	*4-095-037-01	SPRING BUTTON POWER		16	4-205-743-11	SPRING, TORSION	
5	*4-095-026-01	BUTTON, POWER		17	4-047-464-01	CATCHER, PUSH	
6	1-825-177-11	LOUDSPEAKER (4.2X24CM)		18	4-205-682-01	DAMPER	
7	7-685-663-71	SCREW, + BVTP 4X16 TYPE2 IT-3		19	*A-1405-704-A	G BOARD, COMPLETE	(KV-32HQ100B/E/K)
8	1-542-437-11	SPEAKER (2CM)			*A-1405-703-A	G BOARD, COMPLETE	(KV-36HQ100B/E/K)
9	7-685-661-14	SCREW, + BVTP 4X12 TYPE2 IT-3		20	4-206-383-11	BRACKET, G1	
10	*4-206-106-26	BRACKET, MAIN		21	*A-1405-505-A	G1 BOARD, COMPLETE	
11	*4-202-531-01	AC CORD LOCK (SC)		22	*A-1405-503-A	J4 BOARD, COMPLETE	
12	Δ 1-823-853-11	CORD, POWER		23	*A-1405-504-A	N BOARD, COMPLETE	

CONTINUED....

SECTION 7 ELECTRICAL PARTS LIST

6-2. PICTURE TUBE



REF.NO.	PART NO	DESCRIPTION	REMARK	REF.NO.	PART NO	DESCRIPTION	REMARK
51	X-4041-553-1	BEZEL ASSEMBLY	52-56 (KV-32HQ100B/E/K)	64	*A-1405-502-A	C2 BOARD, COMPLETE	
	X-4041-552-1	BEZEL ASSEMBLY	52-56 (KV-36HQ100B/E/K)	65	4-369-318-21	SPRING, TENSION	(KV-32HQ100B/E/K)
52	X-4041-879-1	FRONT LEG LEFT ASSY	(KV-32HQ100B/E/K)		4-089-228-01	SPRING EXTENSION	(KV-36HQ100B/E/K)
	X-4041-874-1	FRONT LEG LEFT ASSY	(KV-36HQ100B/E/K)				
53	*4-095-027-01	GUIDE LIGHT LEFT					
54	*4-095-028-01	GUIDE LIGHT RIGHT					
55	X-4041-879-1	FRONT LEG RIGHT ASSY	(KV-32HQ100B/E/K)	67	4-098-510-11	DGC, CUSHION	(KV-32HQ100B/E/K)
	X-4041-873-1	FRONT LEG RIGHT ASSY	(KV-36HQ100B/E/K)		4-098-501-11	DGC, CUSHION	(KV-36HQ100B/E/K)
56	4-204-865-01	SHEET, BLOTTING	(KV-32HQ100B/E/K)	68	4-089-227-02	DGC CLIP	(KV-36HQ100B/E/K)
	4-204-865-21	SHEET, BLOTTING	(KV-36HQ100B/E/K)	69	*4-204-768-02	HOLDER, DGC (29)"	(KV-32HQ100B/E/K)
57	4-204-66-01	SHEET, BLOTTING	(KV-32HQ100B/E/K)		4-064-945-05	HOLDER, DGC	(KV-36HQ100B/E/K)
	4-203-128-21	SHEET, BLOTTING	(KV-36HQ100B/E/K)	70	4-202-554-02	HOLDER, HV CABLE	
58	*4-203-098-01	SUPPORTER, CRT					
59	Δ 8-735-079-05	CRT W/SHIELDING	(KV-32HQ100B/E/K)				
	Δ 8-725-115-05	CRT W/SHIELDING	(KV-36HQ100B/E/K)	72	3-704-495-03	SPACER, DY	(KV-32HQ100B/E/K)
60	Δ 1-451-520-31	DN (Y22WC3)	(KV-32HQ100B/E/K)		4-096-665-01	SPACER, DY	(KV-36HQ100B/E/K)
	Δ 8-451-538-11	DY Y36DECP-M	(KV-36HQ100B/E/K)	73	4-046-765-12	SCREW, TAPPING 7/16"X 3/16"	
61	1-452-896-11	COIL, NA ROTATION (RT200)		74	4-308-870-00	CLIP, LEAD WIRE	
62	Δ 8-453-022-21	NA2920-M2	(KV-32HQ100B/E/K)	75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	Δ 8-453-023-41	NA328M4	(KV-36HQ100B/E/K)	76	1-452-032-00	MAGNET, DISK; 10MM	
63	*A-1405-508-A	VM BOARD, COMPLETE		77	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
				78	3-701-007-00	BAND, BINDING	

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Note : The N Board and E Board Schematic Diagrams, Printed Wiring Boards and Parts List are not indicated in this manual as the PWB's are regarded as non service items for exchange only.

Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

REF.NO.	PART.NO.	DESCRIPTION	REMARK
* A-1302-431-A	A Board, Complete KV-32HQ100B		
* A-1302-304-A	A Board, Complete KV-32HQ100E		
* A-1302-304-A	A Board, Complete KV-32HQ100K		
* A-1302-418-A	A Board, Complete KV-36HQ100B		
* A-1302-293-A	A Board, Complete KV-36HQ100E		
* A-1302-293-A	A Board, Complete KV-36HQ100K		

A Board, Common Parts

4-202-373-01	SPRING, IC
4-206-065-01	SPACER INSULATING
4-382-854-01	SCREW (M3X8), P, SW (+)

< CAPACITOR >

C300	1-126-947-11	ELECT	47UF	20.00%	35V
C301	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C302	1-162-921-11	CERAMIC CHIP	33PF	5.00%	50V
C303	1-126-947-11	ELECT	47UF	20.00%	35V
C304	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C305	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C400	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C401	1-126-964-11	ELECT	100F	20.00%	50V
C1006	1-126-960-11	ELECT	1UF	20.00%	50V
C1008	1-126-957-11	ELECT	0.22UF	20.00%	50V
C1012	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1101	1-126-934-11	ELECT	220UF	20.00%	16V
C1103	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C1105	1-104-665-11	ELECT	100UF	20.00%	25V
C1106	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1107	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C1108	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1109	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1200	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1201	1-126-934-11	ELECT	220UF	20.00%	16V
C1203	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C1301	1-126-933-11	ELECT	100UF	20.00%	16V
C1302	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1418	1-126-916-11	ELECT	1000UF	20.00%	6.3V
C1602	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1603	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1604	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C1606	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1607	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C1609	1-126-964-11	ELECT	10UF	20.00%	50V
C2000	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2001	1-126-947-11	ELECT	47UF	20.00%	35V
C2002	1-164-346-11	CERAMIC CHIP	1UF	16V	
C2003	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C2004	1-164-346-11	CERAMIC CHIP	1UF	16V	
C2005	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2006	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C2009	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V

C2011	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C2013	1-126-964-11	ELECT	10UF	20.00%	50V
C2014	1-126-964-11	ELECT	10UF	20.00%	50V
C2015	1-126-947-11	ELECT	47UF	20.00%	35V
C2016	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2017	1-126-947-11	ELECT	47UF	20.00%	35V
C2018	1-165-319-11	CERAMIC CHIP	0.1UF	50V	
C2019	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2020	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2021	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2022	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2023	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2024	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2025	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C2026	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
C2027	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C2028	1-162-922-11	CERAMIC CHIP	39PF	5.00%	50V
C2029	1-104-665-11	ELECT	100UF	20.00%	25V
C2030	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C2031	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2032	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2035	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2036	1-126-964-11	ELECT	10UF	20.00%	50V
C2037	1-126-947-11	ELECT	47UF	20.00%	35V
C2038	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2039	1-164-505-11	CERAMIC CHIP	2.2UF	16V	
C2040	1-126-947-11	ELECT	47UF	20.00%	35V
C2041	1-126-947-11	ELECT	47UF	20.00%	35V
C2042	1-126-947-11	ELECT	47UF	20.00%	35V
C2043	1-126-947-11	ELECT	47UF	20.00%	35V
C2044	1-164-505-11	CERAMIC CHIP	2.2UF	16V	
C2045	1-164-505-11	CERAMIC CHIP	2.2UF	16V	
C2046	1-164-505-11	CERAMIC CHIP	2.2UF	16V	
C2047	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C2048	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C2049	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C2050	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2051	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2052	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2053	1-125-891-11	CERAMIC CHIP	0.47UF	10.00%	10V
C2200	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2201	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2202	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2203	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2204	1-126-965-91	ELECT	22UF	20.00%	50V
C2205	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2206	1-126-965-91	ELECT	22UF	20.00%	50V
C2207	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2208	1-126-952-11	ELECT	1000UF	20.00%	35V
C2209	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

C2210	1-126-952-11	ELECT	1000UF	20.00%	35V
C2211	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2212	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2300	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C2301	1-126-947-11	ELECT	47UF	20.00%	35V
C2302	1-136-175-00	FILM	0.68UF	5.00%	50V
C2303	1-126-943-11	ELECT	2200UF	20.00%	25V
C2304	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V
C2305	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C2306	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2307	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C2308	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C2309	1-164-505-11	CERAMIC CHIP	2.2UF	16V	
C2310	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2311	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2313	1-130-777-00	MYLAR	0.1UF	5.00%	100V
C2314	1-111-216-91	ELECT	150UF	20.00%	63V
C2315	1-164-222-91	CERAMIC CHIP	0.22UF	25V	
C2316	1-126-961-11	ELECT	2.2UF	20.00%	50V
C2317	1-126-944-11	ELECT	3300UF	20.00%	25V
C2318	1-126-944-11	ELECT	3300UF	20.00%	25V
C2400	1-126-935-11	ELECT	470UF	20.00%	16V
C2450	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2451	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2453	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C2454	1-165-908-11	CERAMIC CHIP	1UF	10%	10V
C2455	1-126-965-91	ELECT	22UF	20%	50V
C4100	1-162-974-11	CERAMIC CHIP	0.01UF	50V	
C4101	1-126-964-11	ELECT	10UF	20.00%	50V
C4115	1-107-826-91	CERAMIC CHIP	0.1UF	10%	16V
C4116	1-162-970-91	CERAMIC CHIP	0.1UF	10%	25V
C4119	1-107-826-91	CERAMIC CHIP	0.1UF	10%	16V
C4120	1-107-826-91	CERAMIC CHIP	0.1UF	10%	16V
C4121	1-162-970-91	CERAMIC CHIP	0.1UF	10%	25V
C4122	1-162-970-91	CERAMIC CHIP	0.1UF	10%	25V
C5000	1-126-964-11	ELECT	10UF	20.00%	50V
C5001	1-126-964-11	ELECT	10UF	20.00%	50V
C5002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5003	1-126-964-11	ELECT	10UF	20.00%	50V
C5004	1-126-964-11	ELECT	10UF	20.00%	50V
C5005	1-126-964-11	ELECT	10UF	20.00%	50V
C5006	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5100	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V
C5101	1-126-947-11	ELECT	47UF	20.00%	35V
C5102	1-136-497-81	FILM	0.1UF	5.00%	50V
C5103	1-164-156-11	CERAMIC CHIP	0.1UF	25V	
C5104	1-126-947-11	ELECT	47UF	20.00%	35V
C5105	1-164-156-11	CERAMIC CHIP	0.1UF	25V	
C5151	1-136-497-81	FILM	0.1UF	5.00%	50V
C5152	1-136-497-81	FILM	0.1UF	5.00%	50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C5153	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5154	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5300	1-126-947-11	ELECT 47UF	20.00% 35V
C5303	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C5304	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5305	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5307	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C5309	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5312	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C5313	1-126-947-11	ELECT 47UF	20.00% 35V
C5315	1-126-947-11	ELECT 47UF	20.00% 35V
C5316	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5319	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5322	1-129-718-00	FILM 0.022UF	5% 630V
C5326	1-126-941-11	ELECT 470UF	20.00% 25V
C5327	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5328	1-104-665-11	ELECT 100UF	20.00% 25V
C5331	1-137-194-81	FILM 0.47UF	5.00% 50V
C5332	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5334	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5335	1-126-947-11	ELECT 47UF	20.00% 35V
C5400	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C5401	1-126-940-11	ELECT 330UF	20.00% 25V
C5402	1-102-228-00	CERAMIC 470PF	10.00% 500V
C5403	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C5404	1-129-702-00	MYLAR 0.001UF	10.00% 400V
C5405	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5406	1-126-968-11	ELECT 100UF	20.00% 50V
C5407	1-137-401-11	MYLAR 0.22UF	5.00% 100V
C5408	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C5409	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5410	1-126-968-11	ELECT 100UF	20.00% 50V
C5411	1-130-785-11	MYLAR 0.47UF	5.00% 100V
C5412	1-126-964-11	ELECT 10UF	20.00% 50V
C5413	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C5600	1-126-947-11	ELECT 47UF	20.00% 35V
C5601	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C5602	1-126-941-11	ELECT 470UF	20.00% 25V
C5603	1-104-665-11	ELECT 100UF	20.00% 25V
C5604	1-104-665-11	ELECT 100UF	20.00% 25V
C5605	1-126-947-11	ELECT 47UF	20.00% 35V
C5800	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5802	1-126-964-11	ELECT 10UF	20.00% 50V
C5803	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5804	1-136-497-81	FILM 0.1UF	5.00% 15V
C5805	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C5806	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C5807	1-104-665-11	ELECT 100UF	20.00% 25V
C5808	1-126-933-11	ELECT 100UF	20.00% 16V
C5809	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK				
C5810	1-126-963-11	ELECT	4.70UF	20.00%	50V	C6248	1-162-927-11	CERAMIC CHIP 100PF	5.00%	50V	
C5811	1-126-963-11	ELECT	4.70UF	20.00%	50V	C7000	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C5814	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V	C7001	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C5815	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	C7002	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C5816	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V	C7003	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C5817	1-126-947-11	ELECT	47UF	20.00%	35V	C7004	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C5819	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V	C7005	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C6200	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7006	1-125-891-11	CERAMIC CHIP 0.47UF	10.00%	10V	
C6201	1-126-925-11	ELECT	470UF	20.00%	10V	C7007	1-126-947-11	ELECT	470UF	20.00%	35V
C6202	1-126-925-11	ELECT	470UF	20.00%	10V	C7008	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6205	1-137-375-11	MYLAR	0.068UF	5.00%	50V	C7010	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6206	1-137-375-11	MYLAR	0.068UF	5.00%	50V	C7011	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6207	1-128-526-11	ELECT	100UF	20.00%	25V	C7012	1-104-665-11	ELECT	100UF	20.00%	25V
C6209	1-126-916-11	ELECT	1000UF	20.00%	6.3V	C7013	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6210	1-126-916-11	ELECT	1000UF	20.00%	6.3V	C7014	1-107-826-11	CERAMIC CHIP 8.1UF	10.00%	16V	
C6211	1-107-869-11	ELECT	470UF	20.00%	6.3V	C7015	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C6212	1-107-869-11	ELECT	470UF	20.00%	6.3V	C7016	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C6213	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7017	1-104-665-11	ELECT	100UF	20.00%	25V
C6214	1-126-964-11	ELECT	10UF	20.00%	50V	C7018	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6215	1-107-906-11	ELECT	10UF	20.00%	50V	C7019	1-115-416-11	CERAMIC CHIP 0.001UF	5.00%	25V	
C6216	1-104-665-11	ELECT	100UF	20.00%	25V	C7020	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00%	50V	
C6217	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7021	1-125-891-11	CERAMIC CHIP 0.47UF	10.00%	10V	
C6218	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7022	1-162-970-11	CERAMIC CHIP 0.01UF	10.00%	25V	
C6219	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7023	1-126-947-11	ELECT	47UF	20.00%	35V
C6220	1-104-665-11	ELECT	100UF	20.00%	25V	C7024	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6221	1-128-526-11	ELECT	100UF	20.00%	25V	C7025	1-162-964-11	CERAMIC CHIP 0.001UF	10.00%	50V	
C6222	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7026	1-162-964-11	CERAMIC CHIP 0.001UF	10.00%	50V	
C6223	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C7027	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C6224	1-164-156-11	CERAMIC CHIP	0.1UF	25V		C8002	1-107-826-11	CERAMIC CHIP 0.1UF	10.00%	16V	
C6225	1-164-156-11	CERAMIC CHIP	0.1UF	25V		C8003	1-110-489-11	CAPACITOR	1F	5.5V	
C6226	1-104-665-11	ELECT	100UF	20.00%	25V	C8004	1-127-715-91	CERAMIC CHIP 0.22UF	10%	16V	
C6228	1-126-947-11	ELECT	47UF	20.00%	35V	C8005	1-164-160-11	CERAMIC CHIP 20PF	5.00%	50V	
C6229	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V						
C6230	1-126-947-11	ELECT	47UF	20.00%	35V			< CERAMIC TRAP >			
C6231	1-126-916-11	ELECT	1000UF	20.00%	6.3V	CF2000	1-781-328-21	TRAP, CERAMIC			
C6232	1-107-906-11	ELECT	10UF	20.00%	50V						
C6233	1-128-526-11	ELECT	100UF	20.00%	25V			< CONNECTOR >			
C6234	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	CW1000	* 1-793-495-11	CONNECTOR, BOARD TO BOARD 50P			
C6235	1-126-955-11	ELECT	470UF	20.00%	10V	CW1001	* 1-793-495-11	CONNECTOR, BOARD TO BOARD 50P			
C6237	1-137-375-11	MYLAR	0.068UF	5.00%	50V	CW1003	* 1-794-730-11	SOCKET, PC CONNECTOR (PC BOARD)			
C6238	1-126-916-11	ELECT	1000UF	20.00%	6.3V	CW1011	* 1-564-510-11	PLUG, CONNECTOR 7P			
C6239	1-107-869-11	ELECT	470UF	20.00%	6.3V	CW1014	* 1-564-507-11	PLUG, CONNECTOR 4P			
C6240	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1016	* 1-564-514-11	PLUG, CONNECTOR 11P			
C6241	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1021	* 1-564-507-11	PLUG, CONNECTOR 4P			
C6242	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1022	* 1-564-507-11	PLUG, CONNECTOR 4P			
C6243	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1061	* 1-564-516-11	PLUG, CONNECTOR 13P			
C6244	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1062	* 1-564-508-11	PLUG, CONNECTOR 5P			
C6245	1-107-826-11	CERAMIC CHIP	0.1UF	10.00%	16V	CW1063	* 1-564-511-11	PLUG, CONNECTOR 8P			
C6246	1-164-156-11	CERAMIC CHIP	0.1UF	25V		CW1064	1-764-333-11	FIN, CONNECTOR(PCB) (V TYPE)10P			
C6247	1-162-974-11	CERAMIC CHIP	0.01UF	50V							

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
CN1091	1-695-915-11	TAB (CONTACT)		D2301	8-719-914-44	DIODE DAP202K	
CN1092	1-695-915-11	TAB (CONTACT)		D2302	8-719-914-44	DIODE DAP202K	
CN1093	1-695-915-11	TAB (CONTACT)		D2303	8-719-914-43	DIODE DAN202K	
CN1094	1-695-915-11	TAB (CONTACT)		D2304	8-719-914-44	DIODE DAP202K	
CN1601	* 1-816-124-11	PIN, CONNECTOR (FOR PWB) 18P		D2305	8-719-988-61	DIODE 1S8355TE-17	
CN1999	* 1-564-520-11	PLUG, CONNECTOR 5P		D2400	8-719-929-15	DIODE H1S9.1NB2	
CN5001	* 1-564-511-11	PLUG, CONNECTOR 8V		D2403	8-719-929-15	DIODE H1S9.1NB2	
CN5002	* 1-564-510-11	PLUG, CONNECTOR 7P		D4100	8-719-982-24	DIODE MTJ-33A	
CN5003	* 1-564-511-11	PLUG, CONNECTOR 8V		D5301	8-719-988-61	DIODE 1S8355TE-17	
CN5004	1-764-333-11	PIN, CONNECTOR(PCB) (V TYPE)10P		D5303	8-719-987-87	DIODE ERAS5-009	
CN5005	* 1-564-509-11	PLUG, CONNECTOR 8P		D5304	8-719-991-33	DIODE 1S8133T-77	
CN5006	* 1-564-515-11	PLUG, CONNECTOR 12P		D5305	8-719-052-90	DIODE D1N140-TA2	
CN5007	* 1-564-506-61	PLUG, CONNECTOR 3P		D5307	8-719-081-97	DIODE M0L914T1	
CN5008	* 1-564-510-11	PLUG, CONNECTOR 7P		D5308	8-719-081-97	DIODE M0L914T1	
CN5009	* 1-691-772-11	PLUG (MICRO CONNECTOR) 10P		D5400	8-719-110-49	DIODE RD18ESB2	
CN5012	1-695-915-11	TAB (CONTACT)		D5401	8-719-908-03	DIODE GP08D	
CN5013	* 1-564-506-11	PLUG, CONNECTOR 3P		D5402	8-719-110-41	DIODE RD15ESB2	
				D5403	8-719-074-43	DIODE BAS316-115	
				D5404	8-719-074-43	DIODE BAS316-115	
				D5800	8-719-066-11	DIODE 1PS184-115	
< SPLITTER >							
CP1301	1-251-658-11	SPLITTER RF		D5801	8-719-069-60	DIODE UD2STE-179.1B	
				D6200	8-719-500-70	DIODE D5S4M	
< DIODE >				D6201	8-719-500-70	DIODE D5S4M	
D300	8-719-083-60	DIODE UD2STE-174.7B		D6202	8-719-063-70	DIODE D1N120U	
D301	8-719-978-33	DIODE DTZ-FT11-6.8B		D6203	8-719-069-55	DIODE UD2STE-175.6B	
D302	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V	D6204	8-719-063-70	DIODE D1N120U	
D303	8-719-914-43	DIODE DAN202K		D6206	8-719-500-70	DIODE D5S4M	
D304	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V	D6215	8-719-982-24	DIODE MTJ-33A	
				D7000	8-719-066-11	DIODE 1PS184-115	
D305	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V	D7001	8-719-066-11	DIODE 1PS184-115	
D306	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V				
D309	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V	D7002	8-719-083-60	DIODE UD2STE-174.7B	
D310	1-115-339-11	CERAMIC CHIP 0.10V	10.00% 50V	D7010	8-719-988-61	DIODE 1S8355TE-17	
D400	8-719-914-43	DIODE DAN202K		D7015	8-719-988-62	DIODE 1S8355TE-18	
				D8001	8-719-914-43	DIODE DAN202K	
D401	8-719-914-43	DIODE DAN202K		< FERRITE BEAD >			
D1001	8-719-914-44	DIODE DAP202K		FB1001	1-414-766-22	FERRITE	OUH
D1002	8-719-069-55	DIODE UD2STE-175.6B		FB1002	1-414-766-22	FERRITE	OUH
D1003	8-719-914-43	DIODE DAN202K		FB1003	1-414-766-22	FERRITE	OUH
D1004	8-719-069-55	DIODE UD2STE-175.6B		FB1004	1-414-766-22	FERRITE	OUH
				FB1005	1-414-766-22	FERRITE	OUH
D1005	8-719-914-44	DIODE DAP202K		FB1006	1-414-766-22	FERRITE	OUH
D1008	8-719-069-55	DIODE UD2STE-175.6B		FB1100	1-414-766-22	FERRITE	OUH
D1100	8-719-069-54	DIODE UD2STE-175.1B		FB1101	1-414-766-22	FERRITE	OUH
D1607	8-719-914-42	DIODE DA204K		FB1200	1-414-766-22	FERRITE	OUH
D2000	8-719-083-82	DIODE UDZS-TK17-12B		FB1201	1-414-766-22	FERRITE	OUH
				FB1610	1-414-234-22	FERRITE	OUH
D2001	8-719-083-82	DIODE UDZS-TK17-12B		FB1611	1-414-234-22	FERRITE	OUH
D2002	8-719-083-82	DIODE UDZS-TK17-12B		FB1612	1-414-234-22	FERRITE	OUH
D2003	8-719-083-82	DIODE UDZS-TK17-12B		FB1613	1-414-234-22	FERRITE	OUH
D2004	8-719-110-09	DIODE R08.2ESB3					
D2200	8-719-082-60	DIODE UD2STE-174.7B					
D2201	8-719-988-61	DIODE 1S8355TE-17					
D2300	8-719-914-43	DIODE DAN202K					

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
		< TRANSISTOR >		Q7004	8-729-421-19	TRANSISTOR UNW213	
Q300	8-729-010-29	TRANSISTOR MSD601-RST1		Q7005	8-729-010-05	TRANSISTOR MSB709-RT1	
Q400	8-729-120-28	TRANSISTOR 29C1623-LSL6				< RESISTOR >	
Q1000	8-729-028-28	TRANSISTOR 25K2036 (TE85L)		R301	1-216-864-11	SHORT CHIP	0
Q1001	8-729-120-28	TRANSISTOR 29C1623-LSL6		R302	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R303	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1003	1-801-806-11	TRANSISTOR DTC144EKA		R304	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q1004	8-729-120-28	TRANSISTOR 29C1623-LSL6		R305	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q1005	8-729-120-28	TRANSISTOR 29C1623-LSL6		R307	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1006	8-729-028-28	TRANSISTOR 25K2036 (TE85L)		R308	1-216-813-11	METAL CHIP	220 5% 1/10W
Q1100	8-729-120-28	TRANSISTOR 29C1623-LSL6		R309	1-216-864-11	SHORT CHIP	0
Q1101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R310	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1102	8-729-120-28	TRANSISTOR 29C1623-LSL6		R311	1-216-838-11	METAL CHIP	27K 5% 1/10W
Q1103	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R312	1-216-809-11	METAL CHIP	100 5% 1/10W
Q1104	1-801-806-11	TRANSISTOR DTC144EKA		R313	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q1200	8-729-120-28	TRANSISTOR 29C1623-LSL6		R314	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2002	8-729-120-28	TRANSISTOR 29C1623-LSL6		R315	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2003	8-729-120-28	TRANSISTOR 29C1623-LSL6		R316	1-216-817-11	METAL CHIP	470 5% 1/10W
Q2004	8-729-120-28	TRANSISTOR 29C1623-LSL6		R317	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2200	8-729-120-28	TRANSISTOR 29C1623-LSL6		R319	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2300	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R320	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2301	8-729-120-28	TRANSISTOR 29C1623-LSL6		R321	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2302	8-729-120-28	TRANSISTOR 29C1623-LSL6		R322	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2303	8-729-120-28	TRANSISTOR 29C1623-LSL6		R323	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2400	8-729-120-28	TRANSISTOR 29C1623-LSL6		R324	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2401	8-729-120-28	TRANSISTOR 29C1623-LSL6		R325	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2402	8-729-027-38	TRANSISTOR DTA144EKA-T146		R326	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2406	8-729-120-28	TRANSISTOR 29C1623-LSL6		R328	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2407	8-729-120-28	TRANSISTOR 29C1623-LSL6		R400	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q2408	8-729-120-28	TRANSISTOR 29C1623-LSL6		R401	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2409	8-729-120-28	TRANSISTOR 29C1623-LSL6		R402	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2410	8-729-120-28	TRANSISTOR 29C1623-LSL6		R403	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q5301	8-729-010-05	TRANSISTOR MSB709-RT1		R404	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5304	8-729-140-93	TRANSISTOR 25B733-34		R405	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5305	8-729-052-29	TRANSISTOR 25K2076-01MR-F122		R406	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5308	8-729-010-05	TRANSISTOR MSB709-RT1		R407	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5309	8-729-010-29	TRANSISTOR MSD601-RST1		R408	1-216-864-11	SHORT CHIP	0
Q5310	8-729-010-29	TRANSISTOR MSD601-RST1		R409	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5311	8-729-010-05	TRANSISTOR MSB709-RT1		R410	1-216-809-11	METAL CHIP	100 5% 1/10W
Q5400	8-729-039-68	TRANSISTOR IRF620		R411	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q5800	8-729-010-29	TRANSISTOR MSD601-RST1		R413	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q5801	8-729-010-05	TRANSISTOR MSB709-RT1		R414	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q5802	8-729-010-29	TRANSISTOR MSD601-RST1		R1010	1-216-864-11	SHORT CHIP	0
Q5804	8-729-010-05	TRANSISTOR MSB709-RT1		R1011	1-216-864-11	SHORT CHIP	0
Q5805	8-729-010-29	TRANSISTOR MSD601-RST1		R1012	1-216-864-11	SHORT CHIP	0
Q7000	8-729-010-05	TRANSISTOR MSB709-RT1		R1018	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q7001	8-729-010-05	TRANSISTOR MSB709-RT1		R1019	1-216-864-11	SHORT CHIP	0
Q7002	8-729-010-05	TRANSISTOR MSB709-RT1		R1020	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q7003	8-729-010-29	TRANSISTOR MSD601-RST1					

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REF.NO.	PART.NO.	DESCRIPTION	REMARK
R1021	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R1026	1-216-864-11	SHORT CHIP	0
R1029	1-216-864-11	SHORT CHIP	0
R1030	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1031	1-216-295-91	SHORT CHIP	0
R1032	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1033	1-216-295-91	SHORT CHIP	0
R1035	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1036	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1037	1-216-864-11	SHORT CHIP	0
R1038	1-216-864-11	SHORT CHIP	0
R1040	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1041	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1044	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R1045	1-216-835-11	METAL CHIP	15K 5% 1/10W
R1046	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1047	1-216-821-11	METAL CHIP	1K 5% 1/10W
R1048	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1049	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1102	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1103	1-216-809-11	METAL CHIP	100 5% 1/10W
R1105	1-216-817-11	METAL CHIP	470 5% 1/10W
R1106	1-216-834-11	METAL CHIP	12K 5% 1/10W
R1107	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R1108	1-216-809-11	METAL CHIP	100 5% 1/10W
R1109	1-216-817-11	METAL CHIP	470 5% 1/10W
R1110	1-216-817-11	METAL CHIP	470 5% 1/10W
R1111	1-216-797-11	METAL CHIP	10 5% 1/10W
R1112	1-216-817-11	METAL CHIP	470 5% 1/10W
R1113	1-216-818-11	METAL CHIP	560 5% 1/10W
R1117	1-216-839-91	RES CHIP	33K 5% 1/10W
R1118	1-216-817-11	METAL CHIP	470 5% 1/10W
R1119	1-216-839-91	RES CHIP	33K 5% 1/10W
R1120	1-216-864-11	SHORT CHIP	0
R1121	1-216-875-11	METAL CHIP	15K 0.5% 1/10W
R1122	1-216-864-11	SHORT CHIP	0
R1123	1-216-817-11	METAL CHIP	470 5% 1/10W
R1124	1-216-864-11	SHORT CHIP	0
R1127	1-216-864-11	SHORT CHIP	0
R1129	1-216-864-11	SHORT CHIP	0
R1200	1-216-864-11	SHORT CHIP	0
R1201	1-216-864-11	SHORT CHIP	0
R1202	1-216-864-11	SHORT CHIP	0
R1203	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R1209	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1211	1-216-864-11	SHORT CHIP	0
R1213	1-216-864-11	SHORT CHIP	0
R1304	1-216-864-11	SHORT CHIP	0
R1422	1-216-864-11	SHORT CHIP	0
R1423	1-216-864-11	SHORT CHIP	0
R1424	1-216-864-11	SHORT CHIP	0
R1425	1-216-864-11	SHORT CHIP	0
R1426	1-216-864-11	SHORT CHIP	0
R1427	1-216-864-11	SHORT CHIP	0
R1428	1-216-864-11	SHORT CHIP	0
R1476	1-216-864-11	SHORT CHIP	0
R1477	1-216-864-11	SHORT CHIP	0
R1603	1-216-864-11	SHORT CHIP	0
R1604	1-216-864-11	SHORT CHIP	0
R1605	1-216-864-11	SHORT CHIP	0
R1606	1-216-864-11	SHORT CHIP	0
R1607	1-216-809-11	METAL CHIP	100 5% 1/10W
R1608	1-216-864-11	SHORT CHIP	0
R2000	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2004	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2005	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2006	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2007	1-249-401-11	CARBON	47 5% 1/4W
R2011	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2012	1-216-809-11	METAL CHIP	100 5% 1/10W
R2013	1-216-809-11	METAL CHIP	100 5% 1/10W
R2014	1-216-815-11	METAL CHIP	330 5% 1/10W
R2016	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2017	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R2018	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R2019	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2020	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2021	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2022	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2023	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2024	1-216-847-11	METAL CHIP	150K 5% 1/10W
R2025	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2027	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2028	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2030	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2031	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2032	1-216-818-11	METAL CHIP	560 5% 1/10W
R2033	1-216-867-11	METAL CHIP	6.8K 0.5% 1/10W
R2034	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R2037	1-216-295-91	SHORT CHIP	0
R2041	1-216-295-91	SHORT CHIP	0
R2043	1-216-295-91	SHORT CHIP	0
R2051	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2052	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2056	1-216-809-11	METAL CHIP	100 5% 1/10W
R2057	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2058	1-216-845-91	RES CHIP	100K 5% 1/10W
R2059	1-216-833-91	RES CHIP	10K 5% 1/10W
R2060	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2061	1-216-829-11	METAL CHIP	4.7K 5% 1/10W

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REF.NO.	PART.NO.	DESCRIPTION	REMARK
R2062	1-216-845-91	RES CHIP	100K 5% 1/10W
R2063	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2064	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2065	1-216-864-11	SHORT CHIP	0
R2066	1-216-864-11	SHORT CHIP	0
R2069	1-216-864-11	SHORT CHIP	0
R2070	1-216-864-11	SHORT CHIP	0
R2071	1-216-864-11	SHORT CHIP	0
R2072	1-216-864-11	SHORT CHIP	0
R2073	1-216-864-11	SHORT CHIP	0
R2200	1-249-422-11	CARBON	2.7K 5% 1/4W
R2201	1-249-422-11	CARBON	2.7K 5% 1/4W
R2203	1-243-826-21	METAL OXIDE	4.7 5% 1W
R2204	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R2205	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
R2206	1-243-826-21	METAL OXIDE	4.7 5% 1W
R2207	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2208	1-216-819-11	METAL CHIP	680 5% 1/10W
R2209	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2210	1-216-819-11	METAL CHIP	680 5% 1/10W
R2211	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2212	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2214	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R2215	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2216	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2300	1-216-817-11	METAL CHIP	470 5% 1/10W
R2301	1-249-422-11	CARBON	2.7K 5% 1/4W
R2302	1-216-809-11	METAL CHIP	100 5% 1/10W
R2303	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2304	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2305	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2306	1-216-864-11	SHORT CHIP	0
R2307	1-216-811-11	METAL CHIP	150 5% 1/10W
R2308	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2309	1-216-864-11	SHORT CHIP	0
R2310	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2311	1-216-838-11	METAL CHIP	27K 5% 1/10W
R2312	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R2314	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2315	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2400	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2401	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2402	1-216-833-11	METAL CHIP	10K 5% 1/10W
R2403	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R2404	1-216-295-91	SHORT CHIP	0
R2405	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2450	1-216-825-11	METAL CHIP	1K 5% 1/10W
R2451	1-216-864-11	SHORT CHIP	0
R2452	1-216-864-11	SHORT CHIP	0
R2453	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2454	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2455	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2457	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2460	1-216-845-11	METAL CHIP	100K 5% 1/10W
R2461	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2463	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R4113	1-216-813-11	METAL CHIP	220 5% 1/10W
R5002	1-216-871-91	METAL CHIP	10K 5% 1/10W
R5006	1-215-439-00	METAL	5.6K 1% 1/4W
R5008	1-216-809-11	METAL CHIP	100 5% 1/10W
R5010	1-216-809-11	METAL CHIP	100 5% 1/10W
R5011	1-216-809-11	METAL CHIP	100 5% 1/10W
R5013	1-216-809-11	METAL CHIP	100 5% 1/10W
R5016	1-218-914-91	RES CHIP	620K 0.5% 1/10W
R5017	1-216-809-11	METAL CHIP	100 5% 1/10W
R5018	1-216-809-11	METAL CHIP	100 5% 1/10W
R5019	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5020	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5100	1-218-888-11	METAL CHIP	51K 0.5% 1/10W
R5101	1-218-853-11	METAL CHIP	1.8K 0.5% 1/10W
R5102	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R5103	1-216-818-11	METAL CHIP	560 5% 1/10W
R5104	1-249-381-11	CARBON	1 5% 1/4W
R5105	1-249-383-11	CARBON	1.5 5% 1/4W
R5106	1-243-572-71	METAL OXIDE	470 5% 2W
R5107	1-249-395-11	CARBON	15 5% 1/4W
R5151	1-243-693-71	METAL OXIDE	270 5% 1W
R5152	1-249-381-11	CARBON	1 5% 1/4W
R5153	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5154	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R5156	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5157	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5304	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5307	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5308	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5313	1-216-857-11	METAL CHIP	1M 5% 1/10W
R5314	1-216-809-11	METAL CHIP	100 5% 1/10W
R5320	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5324	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5325	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5326	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5328	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5329	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5330	1-218-883-11	METAL CHIP	33K 0.5% 1/10W
R5331	1-218-881-11	METAL CHIP	27K 0.5% 1/10W
R5333	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R5334	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R5336	1-218-891-11	METAL CHIP	68K 0.5% 1/10W
R5338	1-218-911-11	METAL CHIP	470K 0.5% 1/10W
R5340	1-218-891-11	METAL CHIP	68K 0.5% 1/10W

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R5344	1-249-395-11	CARBON	15 5% 1/4W	R5836	1-216-809-11	METAL CHIP	100 5% 1/10W
R5349	1-218-885-11	METAL CHIP	39K 0.5% 1/10W	R5837	1-216-809-11	METAL CHIP	100 5% 1/10W
R5352	1-216-857-11	METAL CHIP	1M 5% 1/10W	R5838	1-216-809-11	METAL CHIP	100 5% 1/10W
R5354	1-216-864-11	SHORT CHIP	0	R6200	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5358	1-216-353-00	METAL OXIDE	2.2 5% 1W	R6201	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5359	1-216-837-11	METAL CHIP	22K 5% 1/10W	R6202	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R5360	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R6203	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R5361	1-216-849-11	METAL CHIP	220K 5% 1/10W	R6204	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5364	1-260-296-11	CARBON	2.2 5% 1/2W	R6205	1-218-851-11	METAL CHIP	1.5K 0.5% 1/10W
R5365	1-216-849-11	METAL CHIP	220K 5% 1/10W	R6206	1-218-837-11	METAL CHIP	390 0.5% 1/10W
R5367	1-216-837-11	METAL CHIP	22K 5% 1/10W	R6210	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5368	1-216-809-11	METAL CHIP	100 5% 1/10W	R6212	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5369	1-216-809-11	METAL CHIP	100 5% 1/10W	R6213	1-211-991-11	METAL CHIP	82 0.5% 1/10W
R5370	1-216-805-11	METAL CHIP	47 5% 1/10W	R7000	1-216-809-11	METAL CHIP	100 5% 1/10W
R5400	1-218-864-91	RES CHIP	5.1K 0.5% 1/10W	R7001	1-216-809-11	METAL CHIP	100 5% 1/10W
R5401	1-218-859-91	RES CHIP	3.3K 0.5% 1/10W	R7002	1-216-809-11	METAL CHIP	100 5% 1/10W
R5402	1-218-864-91	RES CHIP	5.1K 0.5% 1/10W	R7003	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5403	1-218-859-91	RES CHIP	3.3K 0.5% 1/10W	R7004	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5404	1-249-383-11	CARBON	1.5 5% 1/4W	R7005	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5405	1-249-389-11	CARBON	4.7 5% 1/4W	R7006	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5406	1-247-791-91	CARBON	22 5% 1/4W	R7007	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5407	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R7008	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5408	1-243-535-71	METAL OXIDE	220 5% 3W	R7009	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5409	1-214-798-21	METAL	1.8 1% 1/2W	R7010	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5410	1-214-798-21	METAL	1.8 1% 1/2W	R7011	1-216-805-11	METAL CHIP	47 5% 1/10W
R5802	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R7012	1-216-805-11	METAL CHIP	47 5% 1/10W
R5803	1-216-809-11	METAL CHIP	100 5% 1/10W	R7013	1-216-805-11	METAL CHIP	47 5% 1/10W
R5804	1-216-815-11	METAL CHIP	330 5% 1/10W	R7014	1-216-809-11	METAL CHIP	100 5% 1/10W
R5805	1-216-817-11	METAL CHIP	470 5% 1/10W	R7015	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
R5806	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R7016	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5808	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R7017	1-216-809-11	METAL CHIP	100 5% 1/10W
R5809	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R7018	1-216-834-11	METAL CHIP	12K 5% 1/10W
R5810	1-216-837-11	METAL CHIP	22K 5% 1/10W	R7019	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5811	1-216-821-11	METAL CHIP	1K 5% 1/10W	R7021	1-216-809-11	METAL CHIP	100 5% 1/10W
R5812	1-216-833-11	METAL CHIP	10K 5% 1/10W	R7022	1-216-809-11	METAL CHIP	100 5% 1/10W
R5813	1-216-826-11	METAL CHIP	2.7K 5% 1/10W	R7024	1-216-809-11	METAL CHIP	100 5% 1/10W
R5814	1-216-809-11	METAL CHIP	100 5% 1/10W	R7025	1-216-809-11	METAL CHIP	100 5% 1/10W
R5815	1-216-809-11	METAL CHIP	100 5% 1/10W	R7027	1-216-809-11	METAL CHIP	100 5% 1/10W
R5816	1-216-864-11	SHORT CHIP	0	R7028	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R5817	1-216-864-11	SHORT CHIP	0	R7029	1-216-835-11	METAL CHIP	15K 5% 1/10W
R5819	1-216-818-11	METAL CHIP	560 5% 1/10W	R7030	1-216-817-11	METAL CHIP	470 5% 1/10W
R5820	1-216-833-11	METAL CHIP	10K 5% 1/10W	R7032	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5822	1-216-809-11	METAL CHIP	100 5% 1/10W	R7034	1-216-864-11	SHORT CHIP	0
R5823	1-216-809-11	METAL CHIP	100 5% 1/10W	R7042	1-216-809-11	METAL CHIP	100 5% 1/10W
R5830	1-216-864-11	SHORT CHIP	0	R7057	1-216-864-11	SHORT CHIP	0
R5831	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R7060	1-216-864-11	SHORT CHIP	0
R5832	1-218-271-11	METAL CHIP	2K 5% 1/10W	R7061	1-216-864-11	SHORT CHIP	0
R5833	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8001	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5834	1-216-809-11	METAL CHIP	100 5% 1/10W	R8008	1-216-864-11	SHORT CHIP	0
R5835	1-216-809-11	METAL CHIP	100 5% 1/10W	R8009	1-216-864-11	SHORT CHIP	0

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R8011	1-216-864-11	SHORT CHIP	0	R1053	NOT FITTED		
< THERMISTOR >				R1054	1-216-864-11	SHORT CHIP	0
TH5400	1-800-193-00	THERMISTOR		R1056	NOT FITTED		
< CRYSTAL >				R5000	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
X300	1-579-126-11	VIBRATOR, CERAMIC		R5001	1-216-841-11	METAL CHIP	47K 5% 1/10W
X2000	1-781-148-21	VIBRATOR, CRYSTAL		R5003	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
X7000	1-760-895-21	VIBRATOR, CERAMIC		R5004	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
X8001	1-760-105-11	VIBRATOR, CRYSTAL		R5005	1-218-819-11	METAL CHIP	22K 0.5% 1/10W
A Board Variants KV-32HQ100				R5007	NOT FITTED		
< CAPACITOR >				R5009	NOT FITTED		
C1009	NOT FITTED			R5012	NOT FITTED		
C1010	NOT FITTED			R5014	NOT FITTED		
C1011	NOT FITTED			R5015	1-218-883-11	METAL CHIP	33K 0.5% 1/10W
C1013	NOT FITTED			R5310	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
C5320	1-100-143-21	FILM	0.0047UF 5% 630V	R5311	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
C5322	NOT FITTED			R5350	1-218-866-11	METAL CHIP	6.2K 0.5% 1/10W
C7030	NOT FITTED			R5371	1-216-295-91	SHORT CHIP	0
< CONNECTOR >				R5372	1-216-295-91	SHORT CHIP	0
CH1017	NOT FITTED			R5411	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
CH1018	NOT FITTED			R5413	1-216-833-11	METAL CHIP	10K 5% 1/10W
CH1019	NOT FITTED			R5414	1-216-845-11	METAL CHIP	100K 5% 1/10W
CH5010	NOT FITTED			R5415	1-216-841-11	METAL CHIP	47K 5% 1/10W
< DIODE >				R5821	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
D1009	NOT FITTED			R7043	NOT FITTED		
D1010	NOT FITTED			R7044	NOT FITTED		
D1011	NOT FITTED			R7045	NOT FITTED		
D7012	NOT FITTED			R7046	NOT FITTED		
< COIL >				R7047	NOT FITTED		
L5300	1-406-989-21	INDUCTOR	10MH	R7048	NOT FITTED		
L5301	1-406-989-21	INDUCTOR	10MH	R7049	NOT FITTED		
L5302	NOT FITTED			R7050	NOT FITTED		
< TRANSISTOR >				R7052	NOT FITTED		
Q7006	NOT FITTED			R7053	NOT FITTED		
Q7007	NOT FITTED			R7054	NOT FITTED		
Q7008	NOT FITTED			R7055	NOT FITTED		
Q7009	NOT FITTED			R7058	NOT FITTED		
Q7010	NOT FITTED			R7059	NOT FITTED		
< RESISTOR >				R7062	NOT FITTED		
R1050	NOT FITTED			R7063	NOT FITTED		
R1051	NOT FITTED			R7065	NOT FITTED		
R1052	NOT FITTED			< THERMISTOR >			
< CAPACITOR >				TH5000	NOT FITTED		
C1009	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	A Board Variants KV-36HQ100			
C1010	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	< CAPACITOR >			
C1011	1-126-947-11	ELECT	47UF 20.00% 35V	C1009	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V

A C2

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
C1013	1-107-826-91	CERAMIC CHIP 0.1UF	10.00% 16V	R5372	NOT FITTED		
C5320	1-100-145-21	FILM 0.01UF	5% 630V	R5411	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	
C5322	1-136-314-91	FILM 0.022UF	5% 630V	R5413	1-216-832-11	METAL CHIP 8.2K 5% 1/10W	
C7030	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	R5414	1-216-843-11	METAL CHIP 68K 5% 1/10W	
< CONNECTOR >				R5415	1-216-838-11	METAL CHIP 27K 5% 1/10W	
CR1017	* 1-564-507-11	PLUG, CONNECTOR 4P		R5821	1-216-833-11	METAL CHIP 10K 5% 1/10W	
CR1018	* 1-564-507-11	PLUG, CONNECTOR 4P		R7043	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
CR1019	1-784-009-11	CONNECTOR, USB (A)		R7044	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
CR5010	1-564-506-71	PLUG, CONNECTOR 3P		R7045	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
< DIODE >				R7046	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D1009	8-719-914-43	DIODE DAE202K		R7047	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D1010	8-719-914-44	DIODE DAF202K		R7048	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D1011	8-719-069-55	DIODE DUESTE-175.6B		R7049	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
D7012	8-719-988-61	DIODE ISS355TE-17		R7050	1-218-863-11	METAL CHIP 4.7K 0.5% 1/10W	
< COIL >				R7052	1-218-863-11	METAL CHIP 4.7K 0.5% 1/10W	
L5300	1-406-988-21	INDUCTOR 6.8M		R7053	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
L5301	1-406-987-21	INDUCTOR 4.7M		R7054	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
L5302	1-406-674-11	INDUCTOR 3.3M		R7055	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
< TRANSISTOR >				R7058	1-218-855-11	RES CHIP 2.2K 0.5% 1/10W	
Q7006	8-729-010-05	TRANSISTOR MSB709-RT1		R7059	1-218-847-91	RES CHIP 1K 0.5% 1/10W	
Q7007	8-729-010-05	TRANSISTOR MSB709-RT1		R7062	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q7008	8-729-010-05	TRANSISTOR MSB709-RT1		R7063	1-216-817-11	METAL CHIP 470 5% 1/10W	
Q7009	8-729-010-29	TRANSISTOR MSD601-RST1		R7065	1-216-845-11	METAL CHIP 100K 5% 1/10W	
Q7010	8-729-010-29	TRANSISTOR MSD601-RST1		< THERMISTOR >			
< RESISTOR >				TR5000	1-778-293-11	THERMISTOR	
R1050	1-216-835-11	METAL CHIP 15K 5% 1/10W		A Board Variants 32/36HQ100B			
R1051	1-216-835-11	METAL CHIP 15K 5% 1/10W		< TUNER >			
R1052	1-216-803-11	METAL CHIP 33 5% 1/10W		TU1100	8-598-536-20	FRONTEND BTF-EP412	
R1053	1-216-803-11	METAL CHIP 33 5% 1/10W		TU1200	8-598-536-20	FRONTEND BTF-EP412	
R1054	NOT FITTED			A Board Variants 32/36HQ100E & 32/36HQ100K			
R1056	1-216-864-11	SHORT CHIP 0		< TUNER >			
R5000	1-218-891-11	METAL CHIP 68K 0.5% 1/10W		TU1100	8-598-534-20	FRONTEND BTF-EC412	
R5001	1-216-843-11	METAL CHIP 68K 5% 1/10W		TU1200	8-598-534-20	FRONTEND BTF-EC412	
R5003	1-218-879-11	METAL CHIP 22K 0.5% 1/10W		* A-1405-502-A C2 Board, Complete			
R5004	1-218-869-11	METAL CHIP 8.2K 0.5% 1/10W		4-382-854-11 SCREW (M3X10), P, SW (+)			
R5005	1-216-835-11	METAL CHIP 15K 5% 1/10		< CAPACITOR >			
R5007	1-218-913-91	METAL CHIP 560K 0.5% 1/10W		C7301	1-128-527-11	ELECT 330UF 20.00% 25V	
R5009	1-218-903-11	METAL CHIP 220K 0.5% 1/10W		C7302	1-104-653-11	ELECT 220UF 20.00% 16V	
R5012	1-216-809-11	METAL CHIP 100 5% 1/10W		C7303	1-162-920-11	CERAMIC CHIP 27PF 5.00% 50V	
R5014	1-216-809-11	METAL CHIP 100 5% 1/10W		C7304	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
R5015	1-216-845-11	METAL CHIP 100 5% 1/10W		C7305	1-104-653-11	ELECT 220UF 20.00% 16V	
R5310	1-218-891-11	METAL CHIP 68K 0.5% 1/10W		C7306	1-162-920-11	CERAMIC CHIP 27PF 5.00% 50V	
R5311	1-218-875-11	METAL CHIP 15K 0.5% 1/10W					
R5350	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W					
R5371	NOT FITTED						

Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

C2

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
C7307	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	< TRANSISTOR >			
C7308	1-102-129-00	CERAMIC 0.01UF	10.00% 50V	Q7301	8-729-216-22	TRANSISTOR 2SA1162-G	
C7309	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	Q7302	8-729-216-22	TRANSISTOR 2SA1162-G	
C7310	1-107-961-91	ELECT 10UF	20.00% 250V	Q7303	8-729-216-22	TRANSISTOR 2SA1162-G	
C7311	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	Q7304	8-729-216-22	TRANSISTOR 2SA1162-G	
C7312	1-102-129-00	CERAMIC 0.01UF	10.00% 50V	Q7305	8-729-141-73	TRANSISTOR 2SC3624A-T1115L16	
C7313	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	Q7306	8-729-141-73	TRANSISTOR 2SC3624A-T1115L16	
C7314	1-107-961-91	ELECT 10UF	20.00% 250V	Q7307	8-729-141-73	TRANSISTOR 2SC3624A-T1115L16	
C7315	1-161-830-00	CERAMIC 0.0047UF	500V	< RESISTOR >			
C7316	1-162-920-11	CERAMIC CHIP 27PF	5.00% 50V	JR7327	1-216-295-91	SHORT CHIP 0	
C7317	1-161-830-00	CERAMIC 0.0047UF	500V	R7302	1-216-025-11	RES-CHIP 100 5% 1/10W	
C7318	1-102-129-00	CERAMIC 0.01UF	10.00% 50V	R7303	1-216-025-11	RES-CHIP 100 5% 1/10W	
C7319	1-107-961-91	ELECT 10UF	20.00% 250V	R7304	1-216-025-11	RES-CHIP 100 5% 1/10W	
C7320	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R7305	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C7321	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R7308	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C7323	1-161-830-00	CERAMIC 0.0047UF	500V	R7309	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C7326	1-115-350-51	CERAMIC 0.0047UF	2KV	R7310	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C7327	1-107-662-11	ELECT 22UF	20.00% 350V	R7311	1-216-812-11	METAL CHIP 180 5% 1/10W	
C7328	1-115-350-51	CERAMIC 0.0047UF	2KV	R7312	1-215-428-00	METAL 2K 1% 1/4W	
C7329	1-162-116-00	CERAMIC 680PF	10.00% 2KV	R7313	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
C7330	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	R7314	1-216-864-11	SHORT CHIP 0	
C7331	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	R7315	1-215-435-00	METAL 3.9K 1% 1/4W	
C7332	1-162-925-11	CERAMIC CHIP 68PF	5.00% 50V	R7316	1-216-812-11	METAL CHIP 180 5% 1/10W	
< CONNECTOR >				R7317	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
CR7301	* 1-564-511-11	PLUG, CONNECTOR 8P		R7318	1-216-025-11	RES-CHIP 100 5% 1/10W	
CR7304	1-695-915-11	TAB (CONTACT)		R7319	1-216-848-11	METAL CHIP 180K 5% 1/10W	
CR7305	* 1-564-508-11	PLUG, CONNECTOR 5P		R7320	1-216-848-11	METAL CHIP 180K 5% 1/10W	
CR7307	1-695-915-11	TAB (CONTACT)		R7322	1-216-838-11	METAL CHIP 27K 5% 1/10W	
< DIODE >				R7323	1-216-025-11	RES-CHIP 100 5% 1/10W	
D7304	8-719-988-61	DIODE ISS355TE-17		R7324	1-216-833-11	METAL CHIP 10K 5% 1/10W	
D7307	8-719-051-85	DIODE HSS83TD		R7325	1-216-812-11	METAL CHIP 180 5% 1/10W	
D7308	8-719-051-85	DIODE HSS83TD		R7326	1-216-848-11	METAL CHIP 180K 5% 1/10W	
D7310	8-719-051-85	DIODE HSS83TD		R7327	1-216-848-11	METAL CHIP 180K 5% 1/10W	
D7311	8-719-110-17	DIODE ND10ESB2		R7328	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W	
D7312	8-719-908-03	DIODE GP08D		R7329	1-243-624-71	METAL OXIDE 33K 5% 3W	
< IC >				R7330	1-216-838-11	METAL CHIP 27K 5% 1/10W	
IC7301	8-759-680-01	IC TDA6120Q/N2/S1		R7331	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC7302	8-759-680-01	IC TDA6120Q/N2/S1		R7332	1-243-624-71	METAL OXIDE 33K 5% 3W	
IC7303	8-759-680-01	IC TDA6120Q/N2/S1		R7333	1-219-744-11	METAL 220 5% 1/2W	
< COIL >				R7335	1-216-025-11	RES-CHIP 100 5% 1/10W	
L7301	1-408-592-11	INDUCTOR 1.2UH		R7337	1-216-848-11	METAL CHIP 180K 5% 1/10W	
L7302	1-408-399-00	INDUCTOR 1.5UH		R7338	1-216-848-11	METAL CHIP 180K 5% 1/10W	
L7303	1-408-592-11	INDUCTOR 1.2UH		R7340	1-219-744-11	METAL 220 5% 1/2W	
L7304	1-406-666-21	INDUCTOR 150UH		R7341	1-216-838-11	METAL CHIP 27K 5% 1/10W	
				R7342	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R7344	1-243-624-71	METAL OXIDE 33K 5% 3W	
				R7345	1-219-744-11	METAL 220 5% 1/2W	

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R7348	1-202-847-00	SOLID	560K 20% 1/2W	C2650	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3331	1-164-346-11	CERAMIC CHIP 1UF	16V	C3678	1-162-964-11	CERAMIC CHIP 0.001UF	11.00% 50V
R7350	1-219-743-11	METAL	100 5% 1/2W	C2651	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3332	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3679	1-107-826-11	CERAMIC CHIP 0.1UF	11.00% 16V
R7351	1-219-743-11	METAL	100 5% 1/2W	C2652	1-126-947-11	ELECT	47UF 20.00% 35V	C3333	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C9106	1-126-947-11	ELECT	47UF 20.00% 35V
R7353	1-535-303-00	LEAD, JUMPER (5.0MM)		C2653	1-164-346-11	CERAMIC CHIP 1UF	16V	C3334	1-126-964-11	ELECT	100UF 20.00% 50V	< CONNECTOR >			
R7354	1-535-303-00	LEAD, JUMPER (5.0MM)		C2654	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3335	1-126-947-11	ELECT	47UF 20.00% 35V				
R7355	1-535-303-00	LEAD, JUMPER (5.0MM)		C2655	1-126-947-11	ELECT	47UF 20.00% 35V	C3336	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	CN1001	* 1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
R7357	1-535-303-00	LEAD, JUMPER (5.0MM)		C2656	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3337	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	CN3601	* 1-816-666-11	CONNECTOR, RGB 21P	
R7358	1-535-303-00	LEAD, JUMPER (5.0MM)		C2657	1-164-346-11	CERAMIC CHIP 1UF	16V	C3338	1-164-346-11	CERAMIC CHIP 1UF	16V	CN3602	* 1-816-666-11	CONNECTOR, RGB 21P	
R7359	1-535-303-00	LEAD, JUMPER (5.0MM)		C2675	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3339	1-164-346-11	CERAMIC CHIP 1UF	16V	< DIODE >			
R7360	1-535-143-31	LEAD, JUMPER (15.0MM)		C2676	1-164-346-11	CERAMIC CHIP 1UF	16V	C3342	1-104-665-11	ELECT	1000UF 20.00% 25V				
R7362	1-535-143-31	LEAD, JUMPER (15.0MM)		C2677	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3343	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	D2300	8-719-083-57	DIODE UD5S-TL173.6B	
R7363	1-216-295-91	SHORT CHIP	0	C2678	1-164-346-11	CERAMIC CHIP 1UF	16V	C3400	1-126-947-11	ELECT	47UF 20.00% 35V	D2600	8-719-083-82	DIODE UD5S-TL17-12B	
R7364	1-216-839-11	METAL CHIP	33K 5% 1/10W	C2700	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3401	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D2602	8-719-083-82	DIODE UD5S-TL17-12B	
R7365	1-216-839-11	METAL CHIP	33K 5% 1/10W	C2701	1-164-346-11	CERAMIC CHIP 1UF	16V	C3402	1-126-947-11	ELECT	47UF 20.00% 35V	D2626	8-719-083-82	DIODE UD5S-TL17-12B	
R7366	1-216-839-11	METAL CHIP	33K 5% 1/10W	C2702	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3403	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D2628	8-719-083-82	DIODE UD5S-TL17-12B	
R7367	1-249-377-11	CARBON	0.47 5% 1/4W	C2703	1-164-346-11	CERAMIC CHIP 1UF	16V	C3406	1-126-964-11	ELECT	100UF 20.00% 50V	D2650	8-719-083-82	DIODE UD5S-TL17-12B	
R7368	1-249-377-11	CARBON	0.47 5% 1/4W	C2705	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3407	1-126-964-11	ELECT	100UF 20.00% 50V	D2651	8-719-083-82	DIODE UD5S-TL17-12B	
R7369	1-260-328-11	CARBON	1K 5% 1/2W	C2706	1-104-665-11	ELECT	1000UF 20.00% 25V	C3408	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D2652	8-719-083-82	DIODE UD5S-TL17-12B	
< RESISTOR VARIABLE >				C2707	1-104-665-11	ELECT	1000UF 20.00% 25V	C3410	1-126-941-11	ELECT	4700UF 20.00% 25V	D2653	8-719-083-82	DIODE UD5S-TL17-12B	
RV7301	1-241-714-11	RES, ADJ, METAL FILM 110M		C3100	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3411	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D2675	8-719-083-82	DIODE UD5S-TL17-12B	
< SPARK GAP >				C3101	1-104-665-11	ELECT	1000UF 20.00% 25V	C3412	1-126-968-11	ELECT	1000UF 20.00% 50V	D2676	8-719-083-82	DIODE UD5S-TL17-12B	
SG7301	1-519-421-11	GAP, DISCHARGE		C3102	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3413	1-164-346-11	CERAMIC CHIP 1UF	16V	D2700	8-719-083-82	DIODE UD5S-TL17-12B	
* A-1405-503-A J4 Board, Complete				C3103	1-104-665-11	ELECT	1000UF 20.00% 25V	C3414	1-164-346-11	CERAMIC CHIP 1UF	16V	D2701	8-719-083-82	DIODE UD5S-TL17-12B	
< CAPACITOR >				C3105	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3415	1-164-346-11	CERAMIC CHIP 1UF	16V	D3600	8-719-083-82	DIODE UD5S-TL17-12B	
C2300	1-107-715-11	ELECT	22UF 20.00% 50V	C3106	1-104-665-11	ELECT	1000UF 20.00% 25V	C3416	1-164-346-11	CERAMIC CHIP 1UF	16V	D3601	8-719-083-82	DIODE UD5S-TL17-12B	
C2303	1-104-665-11	ELECT	1000UF 20.00% 25V	C3107	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3417	1-164-346-11	CERAMIC CHIP 1UF	16V	D3602	8-719-083-82	DIODE UD5S-TL17-12B	
C2304	1-104-665-11	ELECT	1000UF 20.00% 25V	C3108	1-104-665-11	ELECT	1000UF 20.00% 25V	C3418	1-164-346-11	CERAMIC CHIP 1UF	16V	D3603	8-719-083-82	DIODE UD5S-TL17-12B	
C2305	1-126-941-11	ELECT	4700UF 20.00% 25V	C3110	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	C3419	1-104-665-11	ELECT	1000UF 20.00% 25V	D3604	8-719-083-82	DIODE UD5S-TL17-12B	
C2306	1-104-665-11	ELECT	1000UF 20.00% 25V	C3111	1-104-665-11	ELECT	1000UF 20.00% 25V	C3420	1-104-665-11	ELECT	1000UF 20.00% 25V	D3605	8-719-083-82	DIODE UD5S-TL17-12B	
C2307	1-104-665-11	ELECT	1000UF 20.00% 25V	C3300	1-126-947-11	ELECT	47UF 20.00% 35V	C3421	1-104-665-11	ELECT	1000UF 20.00% 25V	D3606	8-719-083-82	DIODE UD5S-TL17-12B	
C2308	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3301	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C3450	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D3625	8-719-083-82	DIODE UD5S-TL17-12B	
C2309	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3302	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3451	1-126-933-11	ELECT	1000UF 20.00% 16V	D3626	8-719-083-82	DIODE UD5S-TL17-12B	
C2600	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3304	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3500	1-126-947-11	ELECT	47UF 20.00% 35V	D3627	8-719-083-82	DIODE UD5S-TL17-12B	
C2601	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3305	1-164-346-11	CERAMIC CHIP 1UF	16V	C3501	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D3628	8-719-083-82	DIODE UD5S-TL17-12B	
C2602	1-164-346-11	CERAMIC CHIP 1UF	16V	C3310	1-104-665-11	ELECT	1000UF 20.00% 25V	C3502	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3629	8-719-083-82	DIODE UD5S-TL17-12B	
C2603	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3313	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	C3503	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3630	8-719-083-82	DIODE UD5S-TL17-12B	
C2604	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3314	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3504	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3631	8-719-083-82	DIODE UD5S-TL17-12B	
C2605	1-164-346-11	CERAMIC CHIP 1UF	16V	C3315	1-126-964-11	ELECT	10UF 20.00% 50V	C3505	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3650	8-719-083-82	DIODE UD5S-TL17-12B	
C2625	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3317	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3506	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3651	8-719-083-82	DIODE UD5S-TL17-12B	
C2626	1-126-947-11	ELECT	47UF 20.00% 35V	C3318	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	C3507	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D3652	8-719-083-82	DIODE UD5S-TL17-12B	
C2627	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3319	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3600	1-104-665-11	ELECT	1000UF 20.00% 25V	D3653	8-719-083-82	DIODE UD5S-TL17-12B	
C2628	1-164-346-11	CERAMIC CHIP 1UF	16V	C3320	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	C3601	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V	D3654	8-719-083-82	DIODE UD5S-TL17-12B	
C2629	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C3321	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3616	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	D3675	8-719-083-82	DIODE UD5S-TL17-12B	
C2630	1-126-947-11	ELECT	47UF 20.00% 35V	C3322	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V	C3631	1-165-908-11	CERAMIC CHIP 1UF	10% 10V	D3676	8-719-083-82	DIODE UD5S-TL17-12B	
C2631	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3323	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3650	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D3677	8-719-083-82	DIODE UD5S-TL17-12B	
C2632	1-164-346-11	CERAMIC CHIP 1UF	16V	C3324	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V	C3653	1-126-964-11	ELECT	10UF 20.00% 50V	D3700	8-719-083-82	DIODE UD5S-TL17-12B	
				C3325	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C3654	1-126-964-11	ELECT	10UF 20.00% 50V	D3701	8-719-083-82	DIODE UD5S-TL17-12B	
				C3327	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C3675	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	D3702	8-719-056-84	DIODE UD5S-TL17-7.5B	
				C3328	1-164-346-11	CERAMIC CHIP 1UF	16V	C3676	1-104-665-11	ELECT	1000UF 20.00% 25V				
				C3330	1-164-346-11	CERAMIC CHIP 1UF	16V	C3677	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V				

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< FERRITE BEAD >				< RESISTOR >			
FB8800	1-469-869-21	FERRITE	OUR	R2306	1-216-811-11	METAL CHIP 150 5A 1/10W	
< FILTER >				R2307	1-216-811-11	METAL CHIP 150 5A 1/10W	
FL3300	1-236-071-11	ENCAPSULATED COMPONENT		R2308	1-216-811-11	METAL CHIP 150 5A 1/10W	
FL3301	1-236-071-11	ENCAPSULATED COMPONENT		R2309	1-216-811-11	METAL CHIP 150 5A 1/10W	
FL3400	1-236-071-11	ENCAPSULATED COMPONENT		R2310	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
FL3500	1-236-071-11	ENCAPSULATED COMPONENT		R2311	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
< IC >				R2312	1-249-389-11	CARBON 4.7 5A 1/4W	
IC2300	8-759-576-76	IC TDA2822D013TR		R2313	1-249-389-11	CARBON 4.7 5A 1/4W	
IC3300	8-752-096-83	IC CXA2149AQ-TL		R2314	1-216-813-11	METAL CHIP 220 5A 1/10W	
IC3400	8-752-068-45	IC CXA1855Q		R2315	1-216-813-11	METAL CHIP 220 5A 1/10W	
IC3500	8-759-587-03	IC TDA8601T		R2316	1-216-837-11	METAL CHIP 22K 5A 1/10W	
< COIL >				R2317	1-216-837-11	METAL CHIP 22K 5A 1/10W	
L3305	1-414-934-21	INDUCTOR 100H		R2321	1-216-864-11	SHORT CHIP 0	
L3308	1-414-934-21	INDUCTOR 100H		R2325	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >				R2331	1-216-864-11	SHORT CHIP 0	
Q2300	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2600	1-216-817-11	METAL CHIP 470 5A 1/10W	
Q2301	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2601	1-216-841-11	METAL CHIP 47K 5A 1/10W	
Q2302	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2602	1-216-813-11	METAL CHIP 220 5A 1/10W	
Q2303	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2603	1-216-821-11	METAL CHIP 1K 5A 1/10W	
Q2625	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2604	1-216-853-11	METAL CHIP 470K 5A 1/10W	
Q2626	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2605	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
Q3300	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2606	1-216-817-11	METAL CHIP 470 5A 1/10W	
Q3302	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2607	1-216-841-11	METAL CHIP 47K 5A 1/10W	
Q3303	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2608	1-216-813-11	METAL CHIP 220 5A 1/10W	
Q3305	8-729-038-96	TRANSISTOR IM1A-T109		R2609	1-216-821-11	METAL CHIP 1K 5A 1/10W	
Q3306	8-729-038-96	TRANSISTOR IM1A-T109		R2610	1-216-853-11	METAL CHIP 470K 5A 1/10W	
Q3310	8-729-038-96	TRANSISTOR IM1A-T109		R2611	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
Q3311	8-729-038-96	TRANSISTOR IM1A-T109		R2625	1-216-817-11	METAL CHIP 470 5A 1/10W	
Q3312	8-729-038-96	TRANSISTOR IM1A-T109		R2626	1-216-841-11	METAL CHIP 47K 5A 1/10W	
Q3400	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2627	1-216-813-11	METAL CHIP 220 5A 1/10W	
Q3401	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2628	1-216-829-11	METAL CHIP 4.7K 5A 1/10W	
Q3402	8-729-026-49	TRANSISTOR 28A1037AK-T146-R		R2629	1-216-821-11	METAL CHIP 1K 5A 1/10W	
Q3403	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2630	1-216-853-11	METAL CHIP 470K 5A 1/10W	
Q3404	8-729-026-49	TRANSISTOR 28A1037AK-T146-R		R2631	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
Q3405	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2632	1-216-817-11	METAL CHIP 470 5A 1/10W	
Q3406	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2633	1-216-841-11	METAL CHIP 47K 5A 1/10W	
Q3407	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2634	1-216-813-11	METAL CHIP 220 5A 1/10W	
Q3410	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2635	1-216-829-11	METAL CHIP 4.7K 5A 1/10W	
Q3600	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2636	1-216-821-11	METAL CHIP 1K 5A 1/10W	
Q3625	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2637	1-216-853-11	METAL CHIP 470K 5A 1/10W	
Q3650	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2638	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
Q3651	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2650	1-216-817-11	METAL CHIP 470 5A 1/10W	
Q3652	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2651	1-216-841-11	METAL CHIP 47K 5A 1/10W	
Q3624	8-729-120-28	TRANSISTOR 28C1623-LSL6		R2652	1-216-813-11	METAL CHIP 220 5A 1/10W	
				R2654	1-216-821-11	METAL CHIP 1K 5A 1/10W	
				R2655	1-216-853-11	METAL CHIP 470K 5A 1/10W	
				R2656	1-216-827-11	METAL CHIP 3.3K 5A 1/10W	
				R2658	1-216-817-11	METAL CHIP 470 5A 1/10W	

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REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R2659	1-216-841-11	METAL CHIP 47K 5A 1/10W		R3146	1-216-864-11	SHORT CHIP 0	
R2660	1-216-813-11	METAL CHIP 220 5A 1/10W		R3147	1-216-864-11	SHORT CHIP 0	
R2661	1-216-821-11	METAL CHIP 1K 5A 1/10W		R3300	1-218-827-11	METAL CHIP 150 0.5A 1/10W	
R2662	1-216-853-11	METAL CHIP 470K 5A 1/10W		R3301	1-218-827-11	METAL CHIP 150 0.5A 1/10W	
R2663	1-216-827-11	METAL CHIP 3.3K 5A 1/10W		R3310	1-216-839-11	METAL CHIP 33K 5A 1/10W	
R2675	1-216-821-11	METAL CHIP 1K 5A 1/10W		R3311	1-216-841-11	METAL CHIP 47K 5A 1/10W	
R2676	1-216-853-11	METAL CHIP 470K 5A 1/10W		R3313	1-216-817-11	METAL CHIP 470 5A 1/10W	
R2677	1-216-827-11	METAL CHIP 3.3K 5A 1/10W		R3314	1-216-819-11	METAL CHIP 680 5A 1/10W	
R2679	1-216-821-11	METAL CHIP 1K 5A 1/10W		R3315	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
R2680	1-216-853-11	METAL CHIP 470K 5A 1/10W		R3317	1-216-843-11	METAL CHIP 68K 5A 1/10W	
R2681	1-216-827-11	METAL CHIP 3.3K 5A 1/10W		R3318	1-216-843-11	METAL CHIP 68K 5A 1/10W	
R2700	1-216-821-11	METAL CHIP 1K 5A 1/10W		R3319	1-218-885-11	METAL CHIP 39K 0.5A 1/10W	
R2701	1-216-825-11	METAL CHIP 2.2K 5A 1/10W		R3320	1-218-686-11	METAL CHIP 560 0.5A 1/10W	
R2702	1-216-853-11	METAL CHIP 470K 5A 1/10W		R3321	1-218-686-11	METAL CHIP 560 0.5A 1/10W	
R2703	1-216-821-11	METAL CHIP 1K 5A 1/10W		R3323	1-216-809-11	METAL CHIP 100 5A 1/10W	
R2704	1-216-825-11	METAL CHIP 2.2K 5A 1/10W		R3324	1-216-809-11	METAL CHIP 100 5A 1/10W	
R2705	1-216-853-11	METAL CHIP 470K 5A 1/10W		R3326	1-216-864-11	SHORT CHIP 0	
R3101	1-216-864-11	SHORT CHIP 0		R3329	1-216-864-91	SHORT CHIP 0	
R3103	1-216-817-11	METAL CHIP 470 5A 1/10W		R3330	1-216-864-11	SHORT CHIP 0	
R3104	1-216-817-11	METAL CHIP 470 5A 1/10W		R3331	1-414-594-11	FERRITE 0	
R3105	1-216-817-11	METAL CHIP 470 5A 1/10W		R3332	1-216-864-11	SHORT CHIP 0	
R3106	1-216-842-11	METAL CHIP 56K 5A 1/10W		R3333	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
R3107	1-218-725-11	METAL CHIP 24K 0.5A 1/10W		R3335	1-216-864-11	SHORT CHIP 0	
R3108	1-216-864-11	SHORT CHIP 0		R3336	1-216-864-11	SHORT CHIP 0	
R3109	1-216-817-11	METAL CHIP 470 5A 1/10W		R3338	1-216-864-11	SHORT CHIP 0	
R3110	1-216-817-11	METAL CHIP 470 5A 1/10W		R3340	1-216-864-11	SHORT CHIP 0	
R3111	1-216-817-11	METAL CHIP 470 5A 1/10W		R3351	1-216-864-11	SHORT CHIP 0	
R3112	1-216-842-11	METAL CHIP 56K 5A 1/10W		R3400	1-216-809-11	METAL CHIP 100 5A 1/10W	
R3113	1-218-725-11	METAL CHIP 24K 0.5A 1/10W		R3401	1-216-809-11	METAL CHIP 100 5A 1/10W	
R3121	1-216-817-11	METAL CHIP 470 5A 1/10W		R3402	1-218-827-11	METAL CHIP 150 0.5A 1/10W	
R3122	1-216-864-11	SHORT CHIP 0		R3403	1-218-827-11	METAL CHIP 150 0.5A 1/10W	
R3123	1-216-817-11	METAL CHIP 470 5A 1/10W		R3405	1-216-817-11	METAL CHIP 470 5A 1/10W	
R3124	1-216-817-11	METAL CHIP 470 5A 1/10W		R3406	1-216-819-11	METAL CHIP 680 5A 1/10W	
R3125	1-216-842-11	METAL CHIP 56K 5A 1/10W		R3407	1-216-809-11	METAL CHIP 100 5A 1/10W	
R3126	1-218-725-11	METAL CHIP 24K 0.5A 1/10W		R3408	1-216-837-11	METAL CHIP 22K 5A 1/10W	
R3127	1-216-817-11	METAL CHIP 470 5A 1/10W		R3410	1-216-821-11	METAL CHIP 1K 5A 1/10W	
R3128	1-216-864-11	SHORT CHIP 0		R3411	1-216-809-11	METAL CHIP 100 5A 1/10W	
R3129	1-216-817-11	METAL CHIP 470 5A 1/10W		R3412	1-216-821-11	METAL CHIP 1K 5A 1/10W	
R3130	1-216-817-11	METAL CHIP 470 5A 1/10W		R3413	1-216-835-11	METAL CHIP 15K 5A 1/10W	
R3131	1-218-725-11	METAL CHIP 24K 0.5A 1/10W		R3414	1-216-817-11	METAL CHIP 470 5A 1/10W	
R3132	1-216-842-11	METAL CHIP 56K 5A 1/10W		R3415	1-216-817-11	METAL CHIP 470 5A 1/10W	
R3133	1-216-817-11	METAL CHIP 470 5A 1/10W		R3416	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
R3134	1-216-864-11	SHORT CHIP 0		R3417	1-216-864-11	SHORT CHIP 0	
R3135	1-216-817-11	METAL CHIP 470 5A 1/10W		R3419	1-218-827-11	METAL CHIP 150 0.5A 1/10W	
R3136	1-216-817-11	METAL CHIP 470 5A 1/10W		R3420	1-216-839-11	METAL CHIP 33K 5A 1/10W	
R3137	1-216-842-11	METAL CHIP 56K 5A 1/10W		R3421	1-216-841-11	METAL CHIP 47K 5A 1/10W	
R3138	1-218-725-11	METAL CHIP 24K 0.5A 1/10W		R3422	1-216-839-11	METAL CHIP 33K 5A 1/10W	
R3143	1-216-864-11	SHORT CHIP 0		R3423	1-216-841-11	METAL CHIP 47K 5A 1/10W	
R3144	1-216-864-11	SHORT CHIP 0		R3456	1-216-825-11	METAL CHIP 2.2K 5A 1/10W	
R3145	1-216-864-11	SHORT CHIP 0		R3460	1-218-871-11	METAL CHIP 10K 0.5A 1/10W	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK
R3461	1-216-809-11	METAL CHIP	100 5% 1/10W
R3462	1-216-864-11	SHORT CHIP	0
R3463	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R3500	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3501	1-216-864-11	SHORT CHIP	0
R3502	1-216-864-11	SHORT CHIP	0
R3503	1-216-864-11	SHORT CHIP	0
R3504	1-216-864-11	SHORT CHIP	0
R3600	1-216-022-00	RES-CHIP	75 5% 1/10W
R3601	1-216-805-11	METAL CHIP	47 5% 1/10W
R3602	1-216-025-11	METAL CHIP	100 5% 1/10W
R3603	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3604	1-216-022-00	RES-CHIP	75 5% 1/10W
R3605	1-216-805-11	METAL CHIP	47 5% 1/10W
R3606	1-216-022-00	RES-CHIP	75 5% 1/10W
R3607	1-216-805-11	METAL CHIP	47 5% 1/10W
R3608	1-216-022-00	RES-CHIP	75 5% 1/10W
R3609	1-216-805-11	METAL CHIP	47 5% 1/10W
R3610	1-216-022-00	RES-CHIP	75 5% 1/10W
R3611	1-216-843-11	METAL CHIP	68K 5% 1/10W
R3612	1-216-838-11	METAL CHIP	27K 5% 1/10W
R3613	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R3614	1-216-022-00	RES-CHIP	75 5% 1/10W
R3615	1-216-017-91	RES-CHIP	47 5% 1/10W
R3625	1-216-022-00	RES-CHIP	75 5% 1/10W
R3626	1-216-805-11	METAL CHIP	47 5% 1/10W
R3627	1-216-025-11	METAL CHIP	100 5% 1/10W
R3628	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3629	1-216-022-00	RES-CHIP	75 5% 1/10W
R3630	1-216-805-11	METAL CHIP	47 5% 1/10W
R3631	1-216-022-00	RES-CHIP	75 5% 1/10W
R3632	1-216-805-11	METAL CHIP	47 5% 1/10W
R3633	1-216-022-00	RES-CHIP	75 5% 1/10W
R3634	1-216-805-11	METAL CHIP	47 5% 1/10W
R3635	1-216-022-00	RES-CHIP	75 5% 1/10W
R3636	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3638	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3639	1-216-022-00	RES-CHIP	75 5% 1/10W
R3640	1-216-017-91	RES-CHIP	47 5% 1/10W
R3650	1-216-809-11	METAL CHIP	100 5% 1/10W
R3651	1-216-025-11	METAL CHIP	10K 5% 1/10W
R3652	1-216-801-11	METAL CHIP	22 5% 1/10W
R3653	1-216-022-00	RES-CHIP	75 5% 1/10W
R3654	1-216-805-11	METAL CHIP	47 5% 1/10W
R3656	1-216-022-00	RES-CHIP	75 5% 1/10W
R3659	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R3660	1-216-022-00	RES-CHIP	75 5% 1/10W
R3661	1-216-017-91	RES-CHIP	47 5% 1/10W
R3675	1-216-025-11	METAL CHIP	100 5% 1/10W
R3676	1-216-833-11	METAL CHIP	10K 5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R3677	1-216-022-00	RES-CHIP	75 5% 1/10W
R3678	1-216-805-11	METAL CHIP	47 5% 1/10W
R3679	1-216-022-00	RES-CHIP	75 5% 1/10W
R3680	1-216-017-91	RES-CHIP	47 5% 1/10W
R3681	1-216-843-11	METAL CHIP	68K 5% 1/10W
R3682	1-216-838-11	METAL CHIP	27K 5% 1/10W
R3700	1-218-285-11	METAL CHIP	75 5% 1/10W
R3701	1-216-805-11	METAL CHIP	47 5% 1/10W
R3702	1-216-864-11	SHORT CHIP	0
R3703	1-218-285-11	METAL CHIP	75 5% 1/10W
R3704	1-216-805-11	METAL CHIP	47 5% 1/10W
R3705	1-216-295-91	SHORT CHIP	0
R3714	1-216-864-11	SHORT CHIP	0
R3716	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3846	1-216-864-11	SHORT CHIP	0
R3847	1-216-833-11	METAL CHIP	10K 5% 1/10W
R3848	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R3849	1-216-845-11	METAL CHIP	100K 5% 1/10W
R3850	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3851	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3852	1-216-841-11	METAL CHIP	47K 5% 1/10W
R3853	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3854	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3855	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3856	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3857	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3858	1-218-827-11	METAL CHIP	150 0.5% 1/10W
R3853	1-414-594-11	FERRITE	00H
R3867	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3868	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3869	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3870	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8887	1-216-839-11	METAL CHIP	33K 5% 1/10W
R8890	1-211-985-11	METAL CHIP	47 0.5% 1/10W
R8891	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R9053	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9089	1-216-797-11	METAL CHIP	10 5% 1/10W
R9090	1-216-797-11	METAL CHIP	10 5% 1/10W
R9091	1-216-864-11	SHORT CHIP	0
R9092	1-216-864-11	SHORT CHIP	0
* A-1405-505-A G1 Board, Complete			
	4-202-373-01	SPRING, IC	
	4-382-854-01	SCREEN (MX8), P, SW (+)	
< CAPACITOR >			
C4600	Δ 1-161-964-91	CERAMIC	0.00470F 250V
C4601	Δ 1-161-964-91	CERAMIC	0.00470F 250V
C4602	1-165-685-11	ELECT(BLOCK)	820F 20% 450V
C4603	1-127-568-51	CERAMIC	4700PF 10% 2KV

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G1

REF.NO.	PART.NO	DESCRIPTION	REMARK
C4604	1-126-964-11	ELECT	100F 20.00% 50V
C4605	1-102-228-00	CERAMIC	470PF 10.00% 500V
C4606	1-162-318-11	CERAMIC	0.0010UF 10.00% 500V
C4607	1-165-602-91	CERAMIC	220PF 10 2KV
C4608	1-107-909-11	ELECT	470F 20.00% 50V
C4610	1-130-777-00	MYLAR	0.1UF 5.00% 100V
C4611	1-126-971-11	ELECT	4700F 20.00% 50V
C4612	1-136-497-81	FILM	0.1UF 5.00% 50V
C4615	1-136-497-81	FILM	0.1UF 5.00% 50V
C4616	1-104-665-11	ELECT	1000F 20.00% 25V
C4618	1-136-497-81	FILM	0.1UF 5.00% 50V
C4619	1-104-665-11	ELECT	1000F 20.00% 25V
C4621	1-136-497-81	FILM	0.1UF 5.00% 50V
C4622	1-104-665-11	ELECT	1000F 20.00% 25V
C4623	1-136-497-81	FILM	0.1UF 5.00% 50V
C4624	1-126-961-11	ELECT	2.2UF 20.00% 50V
C4625	1-115-792-11	ELECT	0.0022F 20.00% 25V
C4626	1-104-665-11	ELECT	1000F 20.00% 25V
C4627	1-136-497-81	FILM	0.1UF 5.00% 50V
C4628	1-115-766-51	ELECT	0.0022F 20.00% 16V
C4629	1-137-733-51	ELECT	4700UF 20% 25V
< CONNECTOR >			
CH4601	* 1-564-506-11	PLUG, CONNECTOR 3P	
CH4602	1-764-333-11	PIR, CONNECTOR(PCB) (V TYPE) 10P	
CH4603	* 1-564-511-11	PLUG, CONNECTOR 8P	
CH4604	1-695-915-11	TAB (CONTACT)	
CH4605	1-695-915-11	TAB (CONTACT)	
< DIODE >			
D4600	8-719-025-88	DIODE 6B04JL-6088	
D4601	8-719-080-26	DIODE SARSO1V0	
D4602	8-719-075-11	DIODE AG01ZV0	
D4603	8-719-075-11	DIODE AG01ZV0	
D4604	8-719-075-11	DIODE AG01ZV0	
D4605	8-719-075-11	DIODE AG01ZV0	
D4606	8-719-072-17	DIODE BYW100-200RL	
D4607	8-719-085-10	DIODE FMB-24LP654	
D4608	8-719-312-10	DIODE R04AM-T3	
D4609	8-719-510-12	DIODE D10SCAM	
D4611	8-719-991-33	DIODE 1SS133T-77	
D4612	8-719-063-70	DIODE D1ML20U	

< FERRITE BEAD >			
FB4602	1-410-396-41	FERRITE	0.45UH
FB4603	1-410-396-41	FERRITE	0.45UH

REF.NO.	PART.NO	DESCRIPTION	REMARK
< IC >			
IC4600	6-700-292-01	IC STR-L474-LP429	
IC4601	Δ 8-719-010-64	PHOTO COUPLER PC123P2	
IC4602	6-700-293-01	IC SE-012N-LP4	
IC4604	8-759-648-19	IC L7809CV/LSY	
< COIL >			
L4600	1-410-397-21	FERRITE	1.1UH
L4602	1-412-519-11	INDUCTOR	3.3UH
L4603	1-412-519-11	INDUCTOR	3.3UH
L4604	1-406-656-21	INDUCTOR	3.3UH
< PROTECTOR MODULE >			
PS4601	1-535-465-11	LEAD, JUMPER (5.0MM)	
PS4602	1-535-465-11	LEAD, JUMPER (5.0MM)	
< TRANSISTOR >			
Q4600	8-729-029-56	TRANSISTOR DTA144ESA	
Q4601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
< RESISTOR >			
R4600	1-260-127-11	CARBON	220K 5% 1/2W
R4601	1-260-127-11	CARBON	220K 5% 1/2W
R4602	Δ 1-211-371-10	POTENTIOMETER	0.47K 5% 1/1W
R4603	1-260-133-11	CARBON	680K 5% 1/2W
R4604	1-215-884-21	METAL OXIDE	47 5% 2W
R4605	1-249-401-11	CARBON	47 5% 1/4W
R4607	1-249-421-11	CARBON	2.2K 5% 1/4W
R4608	1-260-128-91	CARBON	270K 5% 1/2W
R4609	1-249-419-11	CARBON	1.5K 5% 1/4W
R4610	1-249-403-11	CARBON	68 5% 1/4W
R4611	1-249-418-11	CARBON	1.2K 5% 1/4W
R4612	1-249-419-11	CARBON	1.5K 5% 1/4W
R4613	1-259-880-11	CARBON	2.2M 5% 1/4W
R4614	1-249-417-11	CARBON	1K 5% 1/4W
R4615	1-249-425-11	CARBON	4.7K 5% 1/4W
R4616	1-216-366-00	METAL OXIDE	0.56 5% 2W
R4617	1-249-415-11	CARBON	680 5% 1/4W
R4618	1-249-420-11	CARBON	1.8K 5% 1/4W
< RELAY >			
RY4601	Δ 1-755-389-11	RELAY (AC POWER)	
< TRANSFORMER >			
T4601	Δ 1-437-445-21	TRANSFORMER, CONVERTER (SRT)	

SF

REF.NO. PART.NO. DESCRIPTION REMARK
 * A-1410-377-A SF Board, Complete (KV-32HQ100)
 * A-1405-506-A SF Board, Complete (KV-36HQ100)

SF Board, Common Parts

4-382-854-01	SCREW (M3X8), P, SW (+)		
< CAPACITOR >			
C5205	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5207	1-126-960-11	ELECT 1UF	20.00% 50V
C5209	1-126-964-11	ELECT 10UF	20.00% 50V
C5211	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C5212	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C5213	1-126-964-11	ELECT 10UF	20.00% 50V
C5214	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5216	1-117-722-91	ELECT 2200UF	20.00% 10V
C5239	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5240	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5502	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5503	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5504	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C5505	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5506	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C5507	1-104-665-11	ELECT 1000F	20.00% 25V
C5508	1-136-497-81	FILM 0.1UF	5.00% 50V
C5510	1-104-665-11	ELECT 1000F	20.00% 25V
C5512	1-136-497-81	FILM 0.1UF	5.00% 50V
C5517	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C5518	1-136-497-81	FILM 0.1UF	5.00% 50V
C5520	1-136-497-81	FILM 0.1UF	5.00% 50V
C5521	1-104-665-11	ELECT 1000F	20.00% 25V
C5522	1-104-665-11	ELECT 1000F	20.00% 25V
C5523	1-126-935-11	ELECT 4700F	20.00% 16V
C5524	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5525	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5526	1-126-935-11	ELECT 4700F	20.00% 16V
C5527	1-126-964-11	ELECT 10UF	20.00% 50V
C5528	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5529	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5530	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5531	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5532	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5533	1-126-963-11	ELECT 4.7UF	20.00% 50V
C5534	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5535	1-126-960-11	ELECT 1UF	20.00% 50V
C5536	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5537	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5538	1-126-964-11	ELECT 10UF	20.00% 50V
C5539	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5540	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C5541	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5547	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5548	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5549	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5551	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5554	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C5555	1-136-497-81	FILM 0.1UF	5.00% 50V
C5556	1-136-497-81	FILM 0.1UF	5.00% 50V
< CONNECTOR >			
CW5500	* 1-564-506-11	PLUG, CONNECTOR 3P	
CW5501	* 1-564-511-11	PLUG, CONNECTOR 8W	
CW5505	* 1-564-509-11	PLUG, CONNECTOR 6P	
CW5507	1-564-505-41	PLUG, CONNECTOR 7P	
CW5508	* 1-564-515-11	PLUG, CONNECTOR 12P	
CW5509	* 1-564-506-11	PLUG, CONNECTOR 3P	
< DIODE >			
DS200	8-719-081-97	DIODE MMDL914Y1	
DS201	8-719-081-97	DIODE MMDL914Y1	
< IC >			
IC5200	8-759-700-78	IC NJM082M	
IC5205	8-759-100-96	IC UP0455062	
IC5501	8-759-822-38	IC LA6510	
IC5502	8-759-803-42	IC LA6500-FA	
IC5503	8-759-445-59	IC BA033T	
IC5504	6-803-081-01	IC CXD9761Q	
IC5505	6-702-455-01	IC NM12903M-TF2	
< RESISTOR >			
R5202	1-216-815-11	METAL CHIP 330 5% 1/10W	
R5203	1-216-815-11	METAL CHIP 330 5% 1/10W	
R5204	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5208	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5210	1-218-913-91	METAL CHIP 560K 0.5% 1/10W	
R5217	1-249-383-11	CARBON 1.5 5% 1/4W	
R5224	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5225	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R5229	1-249-383-11	CARBON 1.5 5% 1/4W	
R5231	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R5232	1-218-901-11	METAL CHIP 180K 0.5% 1/10W	
R5234	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5256	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R5258	1-218-878-11	METAL CHIP 20K 0.5% 1/10W	
R5500	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5503	1-218-878-11	METAL CHIP 20K 0.5% 1/10W	
R5504	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5506	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
R5507	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5508	1-218-878-11	METAL CHIP 20K 0.5% 1/10W	
R5510	1-218-878-11	METAL CHIP 20K 0.5% 1/10W	
R5513	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5514	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R5516	1-216-793-11	METAL CHIP 4.7 5% 1/10W	
R5517	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R5519	1-216-793-11	METAL CHIP 4.7 5% 1/10W	
R5520	1-218-882-11	METAL CHIP 30K 0.5% 1/10W	
R5521	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R5522	1-249-383-11	CARBON 1.5 5% 1/4W	
R5523	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R5526	1-215-869-11	METAL OXIDE 1K 5% 1W	
R5527	1-249-383-11	CARBON 1.5 5% 1/4W	
R5528	1-243-831-91	METAL OXIDE 12 5% 1W	
R5530	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R5531	1-249-383-11	CARBON 1.5 5% 1/4W	
R5532	1-218-883-11	METAL CHIP 33K 0.5% 1/10W	
R5535	1-216-793-11	METAL CHIP 4.7 5% 1/10W	
R5536	1-249-383-11	CARBON 1.5 5% 1/4W	
R5538	1-216-793-11	METAL CHIP 4.7 5% 1/10W	
R5539	1-249-441-11	CARBON 100K 5% 1/4W	
R5541	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R5542	1-215-857-11	METAL OXIDE 10 5% 1W	
R5543	1-249-383-11	CARBON 1.5 5% 1/4W	
R5544	1-218-883-11	METAL CHIP 33K 0.5% 1/10W	
R5545	1-243-831-91	METAL OXIDE 12 5% 1W	
R5546	1-215-869-11	METAL OXIDE 1K 5% 1W	
R5547	1-249-383-11	CARBON 1.5 5% 1/4W	
R5548	1-249-383-11	CARBON 1.5 5% 1/4W	
R5550	1-216-864-11	SHORT CHIP 0	
R5551	1-218-823-11	METAL CHIP 100 0.5% 1/10W	
R5552	1-218-823-11	METAL CHIP 100 0.5% 1/10W	
R5553	1-211-976-11	METAL CHIP 20 0.5% 1/10W	
R5554	1-218-823-11	METAL CHIP 100 0.5% 1/10W	
R5555	1-216-864-11	SHORT CHIP 0	
R5556	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5557	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R5558	1-218-823-11	METAL CHIP 100 0.5% 1/10W	
R5559	1-211-986-11	METAL CHIP 51 0.5% 1/10W	
R5560	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5561	1-211-986-11	METAL CHIP 51 0.5% 1/10W	
R5562	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R5563	1-216-797-11	METAL CHIP 10 5% 1/10W	
R5564	1-218-831-11	METAL CHIP 220 0.5% 1/10W	
R5565	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5566	1-218-859-11	METAL CHIP 3.3K 0.5% 1/10W	
R5567	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5572	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5574	1-216-833-11	METAL CHIP 10K 5% 1/10W	

SF

REF.NO.	PART.NO.	DESCRIPTION	REMARK
R5575	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5576	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5577	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5578	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5580	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5581	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5584	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R5587	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R5591	1-211-985-11	METAL CHIP 47 0.5% 1/10W	
R5592	1-211-985-11	METAL CHIP 47 0.5% 1/10W	

SF Board, Variant Parts KV-32HQ100

< CAPACITOR >

C5200	NOT FITTED
C5201	NOT FITTED
C5202	NOT FITTED
C5203	NOT FITTED
C5204	NOT FITTED
C5206	NOT FITTED
C5208	NOT FITTED
C5210	NOT FITTED
C5215	NOT FITTED
C5237	NOT FITTED
C5238	NOT FITTED
C5280	NOT FITTED
C5281	NOT FITTED
C5282	NOT FITTED
C5283	NOT FITTED
C5284	NOT FITTED

< CONNECTOR >

CW5200	NOT FITTED
CW5280	NOT FITTED

< IC >

IC5201	NOT FITTED
IC5280	NOT FITTED

< RESISTOR >

R5200	NOT FITTED
R5201	NOT FITTED
R5205	NOT FITTED
R5206	NOT FITTED
R5207	NOT FITTED
R5209	NOT FITTED
R5211	NOT FITTED
R5212	NOT FITTED
R5213	NOT FITTED
R5214	NOT FITTED

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
R5215	NOT FITTED			< CONNECTOR >			
R5216	NOT FITTED						
R5218	NOT FITTED			CH5200	* 1-564-507-11	PLUG, CONNECTOR 4P	
R5219	NOT FITTED			CH5280	* 1-564-506-11	PLUG, CONNECTOR 3P	
R5220	NOT FITTED			< IC >			
R5230	1-218-915-11	METAL CHIP	680K 0.5% 1/10W	IC5201	8-749-018-54	IC STK391-120	
R5233	NOT FITTED			IC5280	8-749-018-54	IC STK391-120	
R5254	NOT FITTED			< RESISTOR >			
R5255	NOT FITTED						
R5257	NOT FITTED						
R5259	NOT FITTED			R5200	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W
R5260	NOT FITTED			R5201	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5261	NOT FITTED			R5205	1-249-383-11	CARBON	1.5 5% 1/4W
R5262	NOT FITTED			R5206	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R5263	NOT FITTED			R5207	1-243-693-71	METAL OXIDE	270 5% 1W
R5264	NOT FITTED			R5209	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
R5280	NOT FITTED			R5211	1-243-546-71	METAL OXIDE	3.3 5% 2W
R5281	NOT FITTED			R5212	1-249-383-11	CARBON	1.5 5% 1/4W
R5282	NOT FITTED			R5213	1-243-693-71	METAL OXIDE	270 5% 1W
R5283	NOT FITTED			R5214	1-216-843-11	METAL CHIP	68K 5% 1/10W
R5284	NOT FITTED			R5215	1-243-546-71	METAL OXIDE	3.3 5% 2W
R5285	NOT FITTED			R5216	1-249-381-11	CARBON	1 5% 1/4W
R5286	NOT FITTED			R5218	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W
R5287	NOT FITTED			R5219	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5288	NOT FITTED			R5220	1-249-381-11	CARBON	1 5% 1/4W
R5289	NOT FITTED			R5230	1-216-857-11	METAL CHIP	1M 5% 1/10W
R5290	NOT FITTED			R5233	1-218-888-91	RES CHIP	51K 0.5% 1/10W
R5291	NOT FITTED			R5254	1-218-858-11	METAL CHIP	3K 0.5% 1/10W
R5292	NOT FITTED			R5255	1-218-858-11	METAL CHIP	3K 0.5% 1/10W
R5291	NOT FITTED			R5257	1-218-871-91	RES CHIP	10K 0.5% 1/10W
SF Board, Variant Parts KV-36HQ100				R5259	1-218-863-91	RES CHIP	4.7K 0.5% 1/10W
< CAPACITOR >				R5260	1-218-871-91	RES CHIP	10K 0.5% 1/10W
C5200	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	R5261	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
C5201	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	R5262	1-218-834-11	METAL CHIP	300 0.5% 1/10W
C5202	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	R5263	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
C5203	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	R5264	1-218-834-11	METAL CHIP	300 0.5% 1/10W
C5204	1-104-665-11	ELECT 100UF	20.00% 25V	R5280	1-218-858-11	METAL CHIP	3K 0.5% 1/10W
C5206	1-104-665-11	ELECT 100UF	20.00% 25V	R5281	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
C5208	1-164-156-11	CERAMIC CHIP 0.1UF	25V	R5282	1-218-834-11	METAL CHIP	300 0.5% 1/10W
C5210	1-164-156-11	CERAMIC CHIP 0.1UF	25V	R5283	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
C5215	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	R5284	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
C5237	1-162-967-11	CERAMIC CHIP 0.0033UF	10.00% 50V	R5285	1-249-383-11	CARBON	1.5 5% 1/4W
C5238	1-162-967-11	CERAMIC CHIP 0.0033UF	10.00% 50V	R5286	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W
C5280	1-162-967-11	CERAMIC CHIP 0.0033UF	10.00% 50V	R5287	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
C5281	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	R5288	1-216-843-11	METAL CHIP	68K 5% 1/10W
C5282	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V	R5289	1-243-693-71	METAL OXIDE	270 5% 1W
C5283	1-104-665-11	ELECT 100UF	20.00% 25V	R5290	1-249-381-11	CARBON	1 5% 1/4W
C5284	1-104-665-11	ELECT 100UF	20.00% 25V	R5291	1-243-546-71	METAL OXIDE	3.3 5% 2W
				R5292	1-249-381-11	CARBON	1 5% 1/4W

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
* A-1405-666-A SF2 Board, Complete				C8803	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
< CONNECTOR >				C8804	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
CH5500 *1-564-506-11 PLUG, CONNECTOR 3P				C8809	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
< THERMISTOR >				C8810	1-126-947-11	ELECT 47UF	20.00% 35V
TH5501	1-807-796-11	THERMISTOR		C8811	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
* A-1405-539-A D1 Board, Complete 32HQ100				C8812	1-126-960-11	ELECT 1UF	20.00% 50V
* A-1405-507-A D1 Board, Complete 36HQ100				C8817	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
D1 Board, Common Parts				C8820	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V
4-382-854-01	SCREW (M3X8), P, SW (+)			C8821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
< CAPACITOR >				C8822	1-136-479-11	FILM 0.001UF	5.00% 100V
C8100	1-126-960-11	ELECT 1UF	20.00% 50V	C8823	1-162-964-11	CERAMIC CHIP 0.001UF	5.00% 50V
C8101	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	C8824	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8102	1-102-030-00	CERAMIC 330PF	10.00% 500V	C8825	1-126-960-11	ELECT 1UF	20.00% 50V
C8104	1-106-383-00	MYLAR 0.047UF	10.00% 200V	< CONNECTOR >			
C8105	1-126-960-11	ELECT 1UF	20.00% 50V	CH8500	1-764-333-11	PIN, CONNECTOR(PCB) (V TYPE)10P	
C8106	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V	CH8601	* 1-564-506-11	PLUG, CONNECTOR 3P	
C8107	1-102-030-00	CERAMIC 330PF	10.00% 500V	CH8611	* 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
C8109	1-106-383-00	MYLAR 0.047UF	10.00% 200V	CH8612	* 1-564-511-11	PLUG, CONNECTOR 8P	
C8112	1-117-836-11	FILM 6800PF	3.00% 1.5KV	CH8614	* 1-564-508-11	PLUG, CONNECTOR 5P	
C8113	1-117-835-11	FILM 6200PF	3.00% 1.5KV	CH8615	* 1-564-509-11	PLUG, CONNECTOR 6P	
C8114	1-125-893-11	FILM 680PF	3.00% 1.5KV	CH8616	* 1-564-510-11	PLUG, CONNECTOR 7P	
C8115	1-125-893-11	FILM 680PF	3.00% 1.5KV	< DIODE >			
C8116	1-127-681-11	FILM 10000PF	5% 100V	D8100	8-719-991-33	DIODE 1SS133T-77	
C8117	1-115-519-11	FILM 0.56UF	5.00% 250V	D8101	8-719-110-41	DIODE RD15SEB2	
C8118	1-107-846-11	FILM 0.1UF	5.00% 400V	D8102	8-719-110-41	DIODE RD15SEB2	
C8120	1-117-662-11	FILM 0.18UF	5.00% 250V	D8201	8-719-302-43	DIODE KLL1	
C8121	1-107-846-11	FILM 0.1UF	5.00% 400V	D8202	8-719-302-43	DIODE KLL1	
C8122	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	D8203	8-719-510-73	DIODE S3L20UF4	
C8200	1-123-024-21	ELECT 33UF	160V	D8204	8-719-510-73	DIODE S3L20UF4	
C8201	1-107-656-11	ELECT 100UF	20.00% 250V	D8309	8-719-081-97	DIODE MMDL914T1	
C8202	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8311	8-719-081-97	DIODE MMDL914T1	
C8203	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8312	8-719-081-97	DIODE MMDL914T1	
C8204	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8313	8-719-081-97	DIODE MMDL914T1	
C8205	1-126-941-11	ELECT 470UF	20.00% 25V	D8802	8-719-081-97	DIODE MMDL914T1	
C8206	1-126-941-11	ELECT 470UF	20.00% 25V	D8804	8-719-081-97	DIODE MMDL914T1	
C8304	1-104-666-11	ELECT 220UF	20.00% 25V	D8805	8-719-081-97	DIODE MMDL914T1	
C8305	1-164-156-11	CERAMIC CHIP 0.1UF	25V	< IC >			
C8313	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	IC8501	8-759-998-98	IC LM358D	
C8314	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	IC8801	6-701-847-01	IC UPCI89BCT-A	
C8501	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	< COIL >			
C8502	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L8101	1-406-985-11	INDUCTOR 2.2MH	
C8503	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L8201	1-535-303-00	LEAD, JUMPER (5.0MM)	
C8506	1-126-947-11	ELECT 47UF	20.00% 35V	L8202	1-535-303-00	LEAD, JUMPER (5.0MM)	
C8507	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L8203	1-535-303-00	LEAD, JUMPER (5.0MM)	
C8802	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V				

D1

D1

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< TRANSISTOR >				R8226	1-260-288-11	CARBON	0.47 5% 1/2W
Q8010	8-729-010-29	TRANSISTOR MSD601-RST1		R8308	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8011	8-729-010-05	TRANSISTOR MSB709-RT1		R8309	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q8014	8-729-010-29	TRANSISTOR MSD601-RST1		R8317	1-215-475-00	METAL	150K 1% 1/4W
Q8015	8-729-010-05	TRANSISTOR MSB709-RT1		R8318	1-215-461-00	METAL	47K 1% 1/4W
Q8100	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8319	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
Q8101	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8320	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8102	6-550-669-01	TRANSISTOR ST2310DHI		R8321	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q8103	6-550-669-01	TRANSISTOR ST2310DHI		R8327	1-218-883-11	METAL CHIP	33K 0.5% 1/10W
Q8105	8-729-050-48	TRANSISTOR IAF614-005		R8331	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
Q8308	8-729-010-05	TRANSISTOR MSB709-RT1		R8332	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8501	8-729-010-05	TRANSISTOR MSB709-RT1		R8333	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q8502	8-729-010-29	TRANSISTOR MSD601-RST1		R8334	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q8503	8-729-010-29	TRANSISTOR MSD601-RST1		R8336	1-215-469-00	METAL	100K 1% 1/4W
Q8504	8-729-010-05	TRANSISTOR MSB709-RT1		R8363	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
Q8507	8-729-010-29	TRANSISTOR MSD601-RST1		R8364	1-218-861-11	METAL CHIP	3.9K 0.5% 1/10W
Q8508	8-729-010-05	TRANSISTOR MSB709-RT1		R8501	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
Q8701	8-729-010-29	TRANSISTOR MSD601-RST1		R8503	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q8801	8-729-010-05	TRANSISTOR MSB709-RT1		R8504	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q8802	8-729-010-29	TRANSISTOR MSD601-RST1		R8505	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q8806	8-729-010-29	TRANSISTOR MSD601-RST1		R8506	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q8807	8-729-010-05	TRANSISTOR MSB709-RT1		R8508	1-216-864-11	SHORT CHIP	0
Q8808	8-729-421-19	TRANSISTOR UM2213		R8509	1-216-864-11	SHORT CHIP	0
Q8809	8-729-010-29	TRANSISTOR MSD601-RST1		R8510	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q8810	8-729-010-29	TRANSISTOR MSD601-RST1		R8512	1-216-845-11	METAL CHIP	100K 5% 1/10W
< RESISTOR >				R8513	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8028	1-249-411-11	CARBON	330 5% 1/4W	R8518	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R8033	1-249-411-11	CARBON	330 5% 1/4W	R8701	1-215-469-00	METAL	100K 1% 1/4W
R8100	1-243-584-71	METAL OXIDE	4.7K 5% 2W	R8702	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8102	1-249-419-11	CARBON	1.5K 5% 1/4W	R8703	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R8103	1-260-340-11	CARBON	10K 5% 1/2W	R8802	1-216-864-11	SHORT CHIP	0
R8105	1-243-613-71	METAL OXIDE	3.9K 5% 3W	R8803	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
R8107	1-249-419-11	CARBON	1.5K 5% 1/4W	R8804	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8108	1-260-340-11	CARBON	10K 5% 1/2W	R8805	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8109	1-243-949-71	METAL OXIDE	0.47 5% 2W	R8810	1-216-845-11	METAL CHIP	100K 5% 1/10W
R8110	1-215-880-00	METAL OXIDE	10 5% 2W	R8811	1-216-845-11	METAL CHIP	100K 5% 1/10W
R8111	1-216-361-21	METAL OXIDE	0.22 5% 2W	R8812	1-216-864-11	SHORT CHIP	0
R8112	1-215-880-00	METAL OXIDE	10 5% 2W	R8823	1-216-839-11	METAL CHIP	33K 5% 1/10W
R8115	1-215-493-00	METAL	1M 1% 1/4W	R8824	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8116	1-215-485-00	METAL	470K 1% 1/4W	R8829	1-216-809-11	METAL CHIP	100 5% 1/10W
R8117	1-215-493-00	METAL	1M 1% 1/4W	R8831	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R8119	1-249-405-11	CARBON	100 5% 1/4W	R8832	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R8120	1-249-425-11	CARBON	4.7K 5% 1/4W	R8833	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R8121	1-249-425-11	CARBON	4.7K 5% 1/4W	R8834	1-215-469-00	METAL	100K 1% 1/4W
R8201	1-260-123-11	CARBON	100K 5% 1/2W	R8835	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8202	1-212-934-00	FUSIBLE	1 5% 1/2W	R8836	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8206	1-260-288-11	CARBON	0.47 5% 1/2W	R8837	1-216-837-11	METAL CHIP	22K 5% 1/10W
R8207	1-260-288-11	CARBON	0.47 5% 1/2W	R8842	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
				R8843	1-216-815-11	METAL CHIP	330 5% 1/10W
				R8844	1-215-469-00	METAL	100K 1% 1/4W

REF.NO.	PART.NO.	DESCRIPTION	REMARK
R8845	1-215-469-00	METAL	100K 1% 1/4W
R8848	1-216-845-11	METAL CHIP	100K 5% 1/10W
R8849	1-216-845-11	METAL CHIP	100K 5% 1/10W
R8851	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8853	1-216-857-11	METAL CHIP	1M 5% 1/10W
R8854	1-216-837-11	METAL CHIP	22K 5% 1/10W
R8855	1-216-864-11	SHORT CHIP	0
R8856	1-216-837-11	METAL CHIP	22K 5% 1/10W
R8857	1-216-841-11	METAL CHIP	47K 5% 1/10W
R8858	1-216-845-11	METAL CHIP	100K 5% 1/10W
R8861	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R8862	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8863	1-216-864-11	SHORT CHIP	0
< TRANSFORMER >			
T8100	1-433-489-31	TRANSFORMER, FERRITE (BDT)	
T8101	1-433-489-31	TRANSFORMER, FERRITE (BDT)	
T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT	

D1 Board, Variant Parts KV-32HQ100

REF.NO.	PART.NO.	DESCRIPTION	REMARK
< CAPACITOR >			
C8110	1-162-131-11	CERAMIC	220PF 10.00% 2KV
C8111	1-162-116-00	CERAMIC	680PF 10.00% 2KV
C8119	1-117-662-11	FILM	0.180UF 5.00% 250V
C8208	NOT FITTED		
C8209	NOT FITTED		
C8402	NOT FITTED		
C8403	NOT FITTED		
C8404	NOT FITTED		
C8504	1-162-966-11	CERAMIC CHIP	0.0022UF 10.00% 50V
C8607	NOT FITTED		
C8815	NOT FITTED		
< DIODE >			
D8205	NOT FITTED		
D8206	NOT FITTED		
D8401	NOT FITTED		
D8402	NOT FITTED		
D8603	NOT FITTED		
D8604	NOT FITTED		
D8807	NOT FITTED		
< COIL >			
L8401	NOT FITTED		

< PROTECTOR MODULE >

PS8401 NOT FITTED

REF.NO.	PART.NO.	DESCRIPTION	REMARK
< TRANSISTOR >			
Q8106	8-729-047-59	TRANSISTOR STP5NB40FP	
Q8201	NOT FITTED		
Q8401	NOT FITTED		
Q8405	NOT FITTED		
Q8406	NOT FITTED		
Q8509	NOT FITTED		
Q8510	NOT FITTED		
Q8601	NOT FITTED		
< RESISTOR >			
R8101	1-216-460-71	METAL OXIDE	3.9K 5% 2W
R8104	1-243-614-71	METAL OXIDE	4.7K 5% 3W
R8113	NOT FITTED		
R8114	NOT FITTED		
R8118	1-247-807-31	CARBON	100 5% 1/4W
R8213	NOT FITTED		
R8214	1-216-367-11	METAL OXIDE	0.68 5% 2W
R8215	NOT FITTED		
R8216	NOT FITTED		
R8217	NOT FITTED		
R8218	NOT FITTED		
R8219	NOT FITTED		
R8220	NOT FITTED		
R8221	NOT FITTED		
R8222	NOT FITTED		
R8223	NOT FITTED		
R8335	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R8345	NOT FITTED		
R8347	NOT FITTED		
R8404	NOT FITTED		
R8514	NOT FITTED		
R8515	NOT FITTED		
R8516	NOT FITTED		
R8517	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8606	NOT FITTED		
R8607	NOT FITTED		
R8608	NOT FITTED		
R8609	NOT FITTED		
R8813	NOT FITTED		
R8814	NOT FITTED		
R8815	NOT FITTED		
R8859	NOT FITTED		
R8860	NOT FITTED		
< TRANSFORMER >			
T8805	NOT FITTED		

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

D1 D2

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

D2

D1 Board, Variant Parts 36HQ100

REF.NO.	PART.NO.	DESCRIPTION	REMARK
< CAPACITOR >			
C8110	1-162-134-11	CERAMIC 470PF	10.00% 2KV
C8111	1-104-332-11	CERAMIC 470PF	10.00% 2KV
C8119	1-117-663-11	FILM 0.22UF	5.00% 250V
C8208	1-104-665-11	ELECT 100UF	20.00% 25V
C8209	1-104-665-11	ELECT 100UF	20.00% 25V
C8402	1-130-959-91	FILM 0.047UF	5.00% 400V
C8403	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8404	1-136-177-00	FILM 1UF	5.00% 50V
C8504	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8607	1-126-964-11	ELECT 10UF	20.00% 50V
C8815	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
< DIODE >			
D8205	8-719-081-97	DIODE MMDL914T1	
D8206	8-719-081-97	DIODE MMDL914T1	
D8401	8-719-110-41	DIODE RD15ESB2	
D8402	8-719-991-33	DIODE 1SS133T-77	
D8603	8-719-991-33	DIODE 1SS133T-77	
D8604	8-719-991-33	DIODE 1SS133T-77	
D8807	8-719-988-61	DIODE 1SS355T-17	
< COIL >			
L8401	1-406-987-11	INDUCTOR 4.7mH	
< PROTECTOR MODULE >			
< TRANSISTOR >			
Q8106	8-729-025-19	TRANSISTOR IRF1740G	
Q8201	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q8401	8-729-025-19	TRANSISTOR IRF1740G	
Q8405	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8406	8-729-010-05	TRANSISTOR MSB709-RY1	
Q8509	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8510	8-729-010-05	TRANSISTOR MSB709-RY1	
Q8601	8-729-010-29	TRANSISTOR MSD601-RST1	
< RESISTOR >			
R8101	1-215-895-71	METAL OXIDE 3.3K 5% 2W	
R8104	1-215-895-71	METAL OXIDE 3.3K 5% 2W	
R8113	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R8114	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R8118	1-249-401-11	CARBON 47 5% 1/4W	
R8213	1-216-371-00	METAL OXIDE 1.5 5% 2W	
R8214	1-243-951-71	METAL OXIDE 0.68 5% 2W	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
R8215	1-218-847-11	METAL CHIP 1K 0.5% 1/10W	
R8216	1-215-459-00	METAL 39K 1% 1/4W	
R8217	1-215-459-00	METAL 39K 1% 1/4W	
R8218	1-215-469-00	METAL 100K 1% 1/4W	
R8219	1-215-469-00	METAL 100K 1% 1/4W	
R8220	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R8221	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R8222	1-215-469-00	METAL 100K 1% 1/4W	
R8223	1-215-469-00	METAL 100K 1% 1/4W	
R8335	1-218-869-11	METAL CHIP 8.2K 0.5% 1/10W	
R8345	1-218-879-11	METAL CHIP 22K 0.5% 1/10W	
R8347	1-218-883-11	METAL CHIP 33K 0.5% 1/10W	
R8404	1-216-805-11	METAL CHIP 47 5% 1/10W	
R8514	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R8515	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R8516	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R8517	NOT FITTED		
R8606	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R8607	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R8608	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R8609	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R8813	1-216-864-11	SHORT CHIP 0	
R8814	1-218-879-11	METAL CHIP 22K 0.5% 1/10W	
R8815	1-218-871-11	METAL CHIP 10K 0.5% 1/10W	
R8859	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R8860	1-218-881-11	METAL CHIP 27K 0.5% 1/10W	
< TRANSFORMER >			
T8805	1-429-741-11	TRANSFORMER, DRIVE	
< CONNECTOR >			
CW6800	1-564-511-11	PLUG, CONNECTOR 8P	
CW6801	1-691-772-11	PLUG (MICRO CONNECTOR) 10P	
< DIODE >			
D6800	8-719-052-90	DIODE DIN140-YA2	
D6801	8-719-110-41	DIODE RD15ESB2	
D6802	8-719-110-41	DIODE RD15ESB2	
D6803	8-719-911-19	DIODE 1SS119-25	
D6804	8-719-081-97	DIODE MMDL914T1	
D6806	8-719-109-85	DIODE RD5.1ESB2	
D6811	8-719-911-19	DIODE 1SS119-25	
D6813	8-719-911-19	DIODE 1SS119-25	
D6814	8-719-982-21	DIODE MTLJ-30C	
D6815	8-719-911-19	DIODE 1SS119-25	
D6816	8-719-110-41	DIODE RD15ESB2	
D6817	8-719-063-73	DIODE DIN1200-TR	
D6820	8-719-921-63	DIODE MTLJ-7.5B	
D6821	8-719-110-49	DIODE RD18ESB2	

* A-1405-540-A D2 Board, Complete KV-32HQ100
* A-1405-509-A D2 Board, Complete KV-36HQ100

D2 Board, Common Parts

4-382-854-01	SCREEN (M3X8), P, SW (+)			
< CAPACITOR >				
C6802	1-130-483-00	MYLAR	0.01UF	5.00% 50V
C6803	1-165-176-11	CERAMIC CHIP	0.047UF	10.00% 16V
C6804	1-136-813-11	FILM	680PF	5.00% 100V
C6805	1-126-964-11	ELECT	10UF	20.00% 50V
C6806	1-104-662-91	ELECT	22UF	20.00% 25V
C6807	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C6808	1-126-947-11	ELECT	47UF	20.00% 35V
C6809	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00% 50V
C6810	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C6811	1-162-115-00	CERAMIC	330PF	10.00% 1KV
C6812	1-135-946-22	FILM	47000PF	3% 800V
C6813	1-126-967-11	ELECT	47UF	20.00% 50V

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C6814	1-126-947-11	ELECT 47UF	20.00% 35V
C6815	1-130-483-00	MYLAR 0.01UF	5.00% 50V
C6816	1-126-964-11	ELECT 10UF	20.00% 50V
C6820	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6821	1-126-964-11	ELECT 10UF	20.00% 50V
C6822	1-126-966-11	ELECT 33UF	20.00% 50V
C6823	1-126-933-11	ELECT 100UF	20.00% 16V
C6824	1-113-610-11	ELECT (BLOCK) 220UF	20% 250V
C6825	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6826	1-126-969-11	ELECT 220UF	20.00% 50V
C6827	1-137-150-11	FILM 0.01UF	5.00% 100V
C6834	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6835	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C6836	1-136-497-81	FILM 0.1UF	5.00% 50V
C6837	1-136-103-00	FILM 0.1UF	5.00% 200V
C6840	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6842	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C6843	1-135-945-22	FILM 10000PF	7% 800V
C6848	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6849	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C6850	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6851	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C6852	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6853	1-126-933-11	ELECT 100UF	20.00% 16V
C8929	1-107-960-11	ELECT 4.7UF	20.00% 250V
C8930	1-136-535-91	FILM 0.0018UF	5.00% 630V
C8932	1-136-205-11	MYLAR 0.022UF	5.00% 630V
C8939	1-162-129-00	CERAMIC 150PF	10.00% 2KV
C8944	1-137-150-11	FILM 0.01UF	5.00% 100V
C8945	1-126-947-11	ELECT 47UF	20.00% 35V
< CONNECTOR >			
CW6800	1-564-511-11	PLUG, CONNECTOR 8P	
CW6801	1-691-772-11	PLUG (MICRO CONNECTOR) 10P	
< DIODE >			
D6800	8-719-052-90	DIODE DIN140-YA2	
D6801	8-719-110-41	DIODE RD15ESB2	
D6802	8-719-110-41	DIODE RD15ESB2	
D6803	8-719-911-19	DIODE 1SS119-25	
D6804	8-719-081-97	DIODE MMDL914T1	
D6806	8-719-109-85	DIODE RD5.1ESB2	
D6811	8-719-911-19	DIODE 1SS119-25	
D6813	8-719-911-19	DIODE 1SS119-25	
D6814	8-719-982-21	DIODE MTLJ-30C	
D6815	8-719-911-19	DIODE 1SS119-25	
D6816	8-719-110-41	DIODE RD15ESB2	
D6817	8-719-063-73	DIODE DIN1200-TR	
D6820	8-719-921-63	DIODE MTLJ-7.5B	
D6821	8-719-110-49	DIODE RD18ESB2	

REF.NO.	PART.NO.	DESCRIPTION	REMARK
D6822	8-719-063-73	DIODE DIN1200-TR	
D6823	8-719-911-19	DIODE 1SS119-25	
D6824	8-719-911-19	DIODE 1SS119-25	
D6825	8-719-911-19	DIODE 1SS119-25	
D6828	8-719-911-19	DIODE 1SS119-25	
D8919	8-719-948-45	DIODE ERA22-08	
D8927	8-719-991-33	DIODE 1SS133T-77	
< FERRITE BEAD >			
FB6801	1-412-911-11	FERRITE	008
< IC >			
IC6801	8-759-700-07	IC NJM2903M	
IC6802	8-759-701-01	IC NJM2904M	
IC6803	8-759-462-09	IC TLV431AIDBV	
IC6807	8-759-586-17	IC TL1431CE-AP	
< COIL >			
L6802	1-419-658-41	INDUCTOR	107UH
< TRANSISTOR >			
Q6801	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6802	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q6803	8-729-120-28	TRANSISTOR 2SC1623-LSL6	
Q6804	8-729-044-42	TRANSISTOR IRT1644G-LF36	
Q6805	8-729-044-42	TRANSISTOR IRT1644G-LF36	
Q6807	8-729-120-28	TRANSISTOR 2SC1623-LSL6	
Q6808	8-729-120-28	TRANSISTOR 2SC1623-LSL6	
Q6813	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6814	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q6815	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q6816	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q6817	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q8909	6-550-012-01	TRANSISTOR STP59B40 (033V)	
Q8918	1-801-806-11	TRANSISTOR DTC144EKA	
< RESISTOR >			
JR8953	1-216-864-11	SHORT CHIP 0	
R6801	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R6802	1-216-849-11	METAL CHIP 220K 5% 1/10W	
R6803	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6805	1-215-481-00	METAL 330K 1% 1/4W	
R6806	1-215-481-00	METAL 330K 1% 1/4W	
R6807	1-215-481-00	METAL 330K 1% 1/4W	
R6808	1-211-981-11	METAL CHIP 33 0.5% 1/10W	
R6809	1-218-823-11	METAL CHIP 100 0.5% 1/10W	
R6810	1-249-417-11	CARBON 1K 5% 1/4W	
R6811 Δ	1-202-933-61	FUSIBLE 0.1 10A 1/2W	

D2

REF.NO.	PART NO	DESCRIPTION	REMARK		
R6812	1-218-869-11	METAL CHIP	8.2K	5%	1/10W
R6813	1-249-393-11	CARBON	10	5%	1/4W
R6814	1-249-393-11	CARBON	10	5%	1/4W
R6815	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6816	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6817	1-243-979-21	METAL OXIDE	0.1	5%	2W
R6818	1-249-389-11	CARBON	4.7	5%	1/4W
R6820	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6821	1-216-837-11	METAL CHIP	22K	5%	1/10W
R6822	1-216-809-11	METAL CHIP	100	5%	1/10W
R6823	1-247-843-11	CARBON	3.3K	5%	1/4W
R6828	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R6829	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6832	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6834	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6835	1-215-423-00	METAL	1.2K	1%	1/4W
R6836	1-215-441-00	METAL	6.8K	1%	1/4W
R6839	1-215-439-00	METAL	5.6K	1%	1/4W
R6844	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R6845	1-218-875-11	METAL CHIP	2.2K	0.5%	1/10W
R6846	1-218-868-11	METAL CHIP	7.5K	0.5%	1/10W
R6847	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R6848	1-216-817-11	METAL CHIP	470	5%	1/10W
R6852	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6865	1-216-835-11	METAL CHIP	15K	5%	1/10W
R6867	1-216-809-11	METAL CHIP	100	5%	1/10W
R6868	1-216-797-11	METAL CHIP	10	5%	1/10W
R6869	1-216-833-11	METAL CHIP	10K	5%	1/10W
R6870	1-216-849-11	METAL CHIP	220K	5%	1/10W
R6872	1-249-377-11	CARBON	0.47	5%	1/4W
R6873	1-249-431-11	CARBON	15K	5%	1/4W
R6874	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R6875	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
R6876	1-215-485-00	METAL	470K	1%	1/4W
R6877	1-215-485-00	METAL	470K	1%	1/4W
R6878	1-216-821-11	METAL CHIP	1K	5%	1/10W
R6880	1-219-751-51	METAL	47K	5%	1/2W
R6881	1-219-749-51	METAL	10K	5%	1/2W
R6882	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6883	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R6884	1-218-874-11	METAL CHIP	13K	0.5%	1/10W
R6885	1-216-841-11	METAL CHIP	47K	5%	1/10W
R6887	1-249-411-11	CARBON	330	5%	1/4W
R6895	1-216-809-11	METAL CHIP	100	5%	1/10W
R6896	1-216-839-11	METAL CHIP	33K	5%	1/10W

R6897	1-216-853-11	METAL CHIP	470K	5%	1/10W
R6899	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8957	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R8988	1-260-123-11	CARBON	100K	5%	1/2W
R8989	1-249-429-11	CARBON	10K	5%	1/4W

D2	G
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REF.NO.	PART NO.	DESCRIPTION	REMARK		
< COIL >					
L8901	1-406-674-11	INDUCTOR	3.3MH		
< RESISTOR >					
R6825	NOT FITTED				
R6827	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R6837	1-215-441-00	METAL	6.8K	1%	1/4W
R6838	1-215-441-00	METAL	6.8K	1%	1/4W
R6840	1-215-441-00	METAL	6.8K	1%	1/4W
R6841	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R6843	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R8949	1-243-614-71	METAL OXIDE	4.7K	5%	3W
R8950	1-243-616-71	METAL OXIDE	6.8K	5%	3W
R8951	1-243-614-71	METAL OXIDE	4.7K	5%	3W
R8952	1-243-614-71	METAL OXIDE	4.7K	5%	3W
R8954	1-243-719-71	METAL OXIDE	33K	5%	1W
R8955	1-243-719-71	METAL OXIDE	33K	5%	1W
R8956	1-243-725-71	METAL OXIDE	100K	5%	1W
R8998	1-243-614-71	METAL OXIDE	4.7K	5%	3W

* A-1405-704-A G Board, Complete 32HQ100

* A-1405-703-A G Board, Complete 36HQ100

G Board, Common Parts

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C6006	1-117-753-11	ELECT (BLOCK)	470UF	20.00	450V
C6007	1-126-964-11	ELECT	10UF	20.00	50V
C6008	1-126-963-11	ELECT	4.7UF	20.00	50V
C6010	1-136-497-81	FILM	0.1UF	5.00	50V
C6011	1-162-964-11	CERAMIC CHIP	0.001UF	10.00	50V
C6012	1-162-964-11	CERAMIC CHIP	0.001UF	10.00	50V
C6013	1-162-964-11	CERAMIC CHIP	0.001UF	10.00	50V
C6014	1-162-964-11	CERAMIC CHIP	0.001UF	10.00	50V
C6015	1-113-610-11	ELECT (BLOCK)	220UF	20	250V
C6016	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6017	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6018	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6019	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6020	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6021	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6022	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6023	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6024	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6025	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6026	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6027	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6028	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6029	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6030	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6031	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6032	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6033	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6034	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6035	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6036	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6037	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6038	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6039	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6040	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6041	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6042	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6043	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6044	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6045	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6046	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6047	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6048	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6049	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6050	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6051	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6052	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6053	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6054	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6055	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6056	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6057	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6058	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6059	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6060	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6061	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6062	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6063	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6064	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6065	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6066	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6067	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6068	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6069	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6070	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6071	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6072	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6073	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6074	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6075	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6076	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6077	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6078	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6079	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6080	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6081	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6082	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6083	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6084	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6085	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6086	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6087	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6088	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6089	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6090	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6091	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6092	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6093	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6094	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6095	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6096	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6097	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6098	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6099	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V
C6100	1-115-339-11	CERAMIC CHIP	0.1UF	10	50V

C6018	1-126-949-11	ELECT	2200PF	20.00± 35V
C6019	1-164-645-11	CERAMIC	10000PF	10.00± 500V
C6020	1-135-946-22	FILM	470000PF	3± 800V
C6021	1-164-645-11	CERAMIC	1000PF	10.00± 500V
C6022	1-126-963-11	ELECT	4.7UF	20.00± 50V
C6023	1-110-626-11	ELECT	3300PF	20.00± 160V
C6024	1-164-625-11	CERAMIC	680PF	10.00± 500V

REF.NO.	PART NO	DESCRIPTION	REMARK
C6025	1-164-625-11	CERAMIC	680PF 10.00% 500V
C6026	1-164-625-11	CERAMIC	680PF 10.00% 500V
C6027	1-164-625-11	CERAMIC	680PF 10.00% 500V
C6028	1-100-197-11	ELECT	15000UF 20% 16V
C6029	1-100-197-11	ELECT	15000UF 20% 16V
C6030	1-126-944-11	ELECT	3300UF 20.00% 25V
C6031	1-126-944-11	ELECT	3300UF 20.00% 25V
C6032 A	1-113-927-11	CERAMIC	0.01UF 250V
C6033	1-162-964-11	CERAMIC CHIP	0.001UF 10.00% 50V
C6034	1-162-968-11	CERAMIC CHIP	0.0047UF 10.00% 50V
C6035	1-136-497-81	FILM	0.1UF 5.00% 50V
C6036	1-136-479-11	FILM	0.001UF 5.00% 100V
C6037	1-126-947-11	ELECT	47UF 20.00% 35V
C6038	1-164-645-11	CERAMIC	1000PF 10.00% 500V
C6039	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V
C6040	1-115-340-11	CERAMIC CHIP	0.22UF 10.00% 25V
C6045	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
C6102	1-126-943-11	ELECT	2200UF 20.00% 25V
C6103	1-126-971-11	ELECT	470UF 20.00% 50V
C6105	1-126-964-11	ELECT	10UF 20.00% 50V
C6106	1-126-964-11	ELECT	10UF 20.00% 50V

< CONNECTOR >

[illegible]

CM6005	* 1-817-037-61	PLUG CONNECTOR 6P
CM6006	* 1-564-516-11	PLUG, CONNECTOR 13P
CM6007	* 1-816-982-71	PLUG, CONNECTOR 5P
CM6008	* 1-816-982-71	PLUG, CONNECTOR 5P
CM6010	* 1-564-511-11	PLUG, CONNECTOR 8P
CM6013	* 1-816-974-51	PLUG, CONNECTOR 3P

CN6014	1-695-915-11	TAB (CONTACT)
CN6015	1-695-915-11	TAB (CONTACT)

< DIODE >

D6001	6-500-067-01	DIODE GSTB460L/45
D6002	8-719-982-26	DIODE M7EZ-33B
D6004	8-719-979-64	DIODE UF4005PKG23
D6008	8-719-063-70	DIODE D1NL20U
D6009	8-719-110-41	DIODE RD15SEB2
D6010	8-719-085-24	DIODE FB1U4D7M1-B
D6011	8-719-033-12	DIODE S3LA0F
D6012	8-719-033-12	DIODE S3LA0F
D6014	8-719-083-92	DIODE YG802C09RF122
D6015	8-719-085-10	DIODE FMB-24LF654
D6016	8-719-312-47	DIODE RBA-406B
D6035	8-719-510-02	DIODE D1NS4

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
D6036	8-719-081-97	DIODE MMDL914T1		R6008	1-243-979-21	METAL OXIDE 0.1 5% 2W	
D6101	8-719-081-97	DIODE MMDL914T1		R6009	1-216-687-11	METAL CHIP 33K 0.5% 1/10W	
D6102	8-719-511-40	DIODE SILV840		R6010	1-215-481-00	METAL 330K 1% 1/4W	
D6103	8-719-081-97	DIODE MMDL914T1		R6011 Δ 1-216-265-11	METAL 47K 5% 1/10W		
D6104	8-719-081-97	DIODE MMDL914T1		R6014	1-243-624-21	METAL OXIDE 33K 5% 3W	
< FERRITE BEAD >				R6015	1-208-757-11	METAL CHIP 91 0.5% 1/10W	
FB6001	1-410-397-21	FERRITE 1.1UH		R6021	1-243-946-21	METAL OXIDE 0.27 5% 2W	
FB6002	1-410-397-21	FERRITE 1.1UH		R6022	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB6003	1-410-397-21	FERRITE 1.1UH		R6024	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
FB6004	1-410-397-21	FERRITE 1.1UH		R6028	1-249-389-11	CARBON 4.7 5% 1/4W	
< IC >				R6029	1-216-833-11	METAL CHIP 10K 5% 1/10W	
IC6001	8-754-670-30	IC MC13001D		R6030	1-216-817-11	METAL CHIP 470 5% 1/10W	
IC6003	8-749-016-19	IC SE135M-LF4		R6032	1-249-417-11	CARBON 1K 5% 1/4W	
< COIL >				R6033	1-215-481-00	METAL 330K 1% 1/4W	
L6001	1-406-663-21	INDUCTOR 47UH		R6035	1-260-083-11	CARBON 47 5% 1/2W	
L6002	1-412-521-31	INDUCTOR 4.7UH		R6036	1-216-817-11	METAL CHIP 470 5% 1/10W	
L6003	1-412-521-31	INDUCTOR 4.7UH		R6037	1-249-405-11	CARBON 100 5% 1/4W	
L6006	1-406-659-11	INDUCTOR 10UH		R6038	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
L6007	1-412-525-31	INDUCTOR 10UH		R6039	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
L6008	1-406-670-11	INDUCTOR 680UH		R6040	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
< PHOTOCOUPLER >				R6042	1-216-295-91	SHORT CHIP 0	
PH6001 Δ 1-412-511-11				R6045	1-216-639-11	METAL CHIP 330 0.5% 1/10W	
< TRANSISTOR >				R6047	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
Q6003	8-729-010-29	TRANSISTOR MSD601-RST1		R6048	1-215-481-00	METAL 330K 1% 1/4W	
Q6006	6-550-698-01	TRANSISTOR SPA08W50C3-R8152		R6049	1-208-805-11	METAL CHIP 9.1K 0.5% 1/10W	
Q6007	6-550-698-01	TRANSISTOR SPA08W50C3-R8152		R6050	1-208-758-11	METAL CHIP 100 0.5% 1/10W	
Q6101	8-729-029-56	TRANSISTOR DTA144ESA		R6054	1-216-615-11	METAL CHIP 33 0.5% 1/10W	
Q6102	8-729-010-29	TRANSISTOR MSD601-RST1		R6056	1-216-295-91	SHORT CHIP 0	
Q6103	8-729-029-56	TRANSISTOR DTA144ESA		R6101	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q6104	8-729-010-29	TRANSISTOR MSD601-RST1		R6102	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q6105	8-729-010-29	TRANSISTOR MSD601-RST1		R6103	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< RESISTOR >				R6104	1-216-821-11	METAL CHIP 1K 5% 1/10W	
JR6002	1-216-295-91	SHORT CHIP 0		R6105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
JR6004	1-216-295-91	SHORT CHIP 0		R6106	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6003 Δ	1-202-933-61	FUSIBLE 0.1 10% 1/2W		R6107	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6004 Δ	1-205-998-11	CEMENTED 1 5% 10W		R6108	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6005 Δ	1-205-998-11	CEMENTED 1 5% 10W		R6109	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R6006 Δ	1-205-998-11	CEMENTED 1 5% 10W		R6110	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R6007	1-243-979-21	METAL OXIDE 0.1 5% 2W		< RELAY >			
< TRANSFORMER >				RY6001 Δ	1-755-395-11	RELAY (AC POWER)	
T6001 Δ	1-431-402-11	TRANSFORMER, LINE FILTER		RY6002 Δ	1-755-389-11	RELAY (AC POWER)	
T6002 Δ	1-437-850-12	TRANSFORMER, CONVERTER (PIT)		< TRANSFORMER >			
T6003 Δ	1-431-402-11	TRANSFORMER, LINE FILTER		T6001 Δ	1-431-402-11	TRANSFORMER, LINE FILTER	
T6101 Δ	1-437-483-11	TRANSFORMER, STANDBY		T6002 Δ	1-437-850-12	TRANSFORMER, CONVERTER (PIT)	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G VM

REF.NO.	PART.NO.	DESCRIPTION	REMARK	REF.NO.	PART.NO.	DESCRIPTION	REMARK
< THERMISTOR >				* A-1405-508-A VM Board, Complete			
TH6002 Δ	1-804-650-11	THEMISTOR, POSITIVE		4-382-854-01	SCREW (M3X8), P, SW (+)		
G Board, Variant Parts 32HQ100				< CAPACITOR >			
< CAPACITOR >				C7400	1-107-883-11	ELECT 330UF 20.00% 16V	
C6005	1-216-965-91	ELECT 22UF 20.00% 50V		C7401	1-126-935-11	ELECT 470UF 20.00% 16V	
< DIODE >				C7402	1-137-150-11	FILM 0.01UF 5.00% 100V	
D6006	8-719-081-97	DIODE MMDL914T1		C7403	1-104-655-91	ELECT 470UF 20.00% 6.3V	
D6007	8-719-081-97	DIODE MMDL914T1		C7405	1-126-933-11	ELECT 100UF 20.00% 16V	
< TRANSISTOR >				C7406	1-104-655-91	ELECT 470UF 20.00% 6.3V	
Q6003	8-729-029-56	TRANSISTOR DTA144ESA		C7407	1-107-364-11	MYLAR 0.01UF 10.00% 200V	
Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE		C7408	1-107-364-11	MYLAR 0.01UF 10.00% 200V	
< RESISTOR >				C7409	1-107-649-11	ELECT 2.2UF 20.00% 250V	
R6016	1-216-821-11	METAL CHIP 1K 5% 1/10W		C7410	1-130-471-00	MYLAR 0.001UF 5.00% 50V	
R6017	1-216-833-11	METAL CHIP 10K 5% 1/10W		C7411	1-130-471-00	MYLAR 0.001UF 5.00% 50V	
R6018	1-247-895-91	CARBON 470K 5% 1/4W		C7412	1-126-935-11	ELECT 470UF 20.00% 16V	
R6019	1-247-891-00	CARBON 330K 5% 1/4W		C7413	1-126-935-11	ELECT 470UF 20.00% 16V	
R6020	1-216-820-11	METAL CHIP 820 5% 1/10W		C7414	1-107-652-11	ELECT 10UF 20.00% 250V	
R6057	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W		C7415	1-107-363-91	MYLAR 0.0068UF 10.00% 200V	
G Board, Variant Parts 36HQ100				C7417	1-102-514-11	CERAMIC 22PF 5.00% 50V	
< CAPACITOR >				C7418	1-101-880-00	CERAMIC 47PF 5.00% 50V	
C6005	NOT FITTED			< CONNECTOR >			
< DIODE >				CN7401	* 1-564-510-11	PLUG, CONNECTOR 7P	
D6006	NOT FITTED			CN7402	* 1-564-506-11	PLUG, CONNECTOR 3P	
D6007	NOT FITTED			CN7403	* 1-564-506-11	PLUG, CONNECTOR 3P	
< TRANSISTOR >				CN7404	* 1-770-747-11	CONNECTOR, BOARD TO BOARD 12P	
Q6005	NOT FITTED			CN7405	* 1-564-506-11	PLUG, CONNECTOR 3P	
Q6010	NOT FITTED			< DIODE >			
< RESISTOR >				D7400	8-719-991-33	DIODE 1SS133T-77	
R6016	NOT FITTED			D7401	8-719-510-02	DIODE D1NS4	
R6017	NOT FITTED			D7402	1-535-303-00	LEAD, JUMPER (5.0MM)	
R6018	NOT FITTED			D7403	8-719-991-33	DIODE 1SS133T-77	
R6019	NOT FITTED			D7404	8-719-991-33	DIODE 1SS133T-77	
R6020	NOT FITTED			D7405	8-719-924-11	DIODE MTLJ-T-77-22	
R6057	NOT FITTED			D7406	8-719-924-11	DIODE MTLJ-T-77-22	
< FERRITE BEAD >				< COIL >			
FB7400	1-535-303-00	LEAD, JUMPER (5.0MM)		L7400	1-410-784-41	INDUCTOR 0.18UH	
FB7401	1-535-303-00	LEAD, JUMPER (5.0MM)		L7401	1-414-930-21	INDUCTOR 2.2UH	
< TRANSISTOR >				< TRANSISTOR >			
Q7400	8-729-119-78	TRANSISTOR 2SC2785-HFE					

Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

VM F

REF.NO.	PART.NO.	DESCRIPTION	REMARK
Q7401	8-729-119-78	TRANSISTOR 2SC2785-BFE	
Q7402	8-729-119-78	TRANSISTOR 2SC2785-BFE	
Q7403	8-729-119-78	TRANSISTOR 2SC2785-BFE	
Q7404	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7405	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7406	8-729-045-05	TRANSISTOR 2SA2005	
Q7407	8-729-045-04	TRANSISTOR 2SC5511	
Q7408	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q7409	8-729-119-78	TRANSISTOR 2SC2785-BFE	

< RESISTOR >

R7401	1-247-843-11	CARBON	3.3K	5%	1/4W
R7402	1-249-413-11	CARBON	470	5%	1/4W
R7403	1-249-393-11	CARBON	10	5%	1/4W
R7404	1-249-420-11	CARBON	1.8K	5%	1/4W
R7405	1-249-425-11	CARBON	4.7K	5%	1/4W

R7406	1-249-425-11	CARBON	4.7K	5%	1/4W
R7407	1-249-399-11	CARBON	33	5%	1/4W
R7408	1-247-807-31	CARBON	100	5%	1/4W
R7409	1-249-409-11	CARBON	220	5%	1/4W
R7410	1-249-401-11	CARBON	47	5%	1/4W

R7411	1-249-401-11	CARBON	47	5%	1/4W
R7412	1-249-429-11	CARBON	10K	5%	1/4W
R7413	1-249-414-11	CARBON	560	5%	1/4W
R7414	1-249-432-11	CARBON	18K	5%	1/4W
R7415	1-260-316-51	CARBON	100	5%	1/2W

R7416	1-249-388-11	CARBON	3.9	5%	1/4W
R7417	1-249-432-11	CARBON	18K	5%	1/4W
R7418	1-249-414-11	CARBON	560	5%	1/4W
R7419	1-249-421-11	CARBON	2.2K	5%	1/4W
R7420	1-249-421-11	CARBON	2.2K	5%	1/4W

R7421	1-249-386-11	CARBON	2.7	5%	1/4W
R7422	1-249-405-11	CARBON	100	5%	1/4W
R7423	1-215-915-11	METAL OXIDE	470	5%	3W
R7425	1-535-303-00	LEAD, JUMPER (5.0MM)			
R7427	1-249-401-11	CARBON	47	5%	1/4W

R7428	1-249-413-11	CARBON	470	5%	1/4W
R7429	1-249-413-11	CARBON	470	5%	1/4W
R7430	1-249-417-11	CARBON	1K	5%	1/4W
R7432	1-249-415-11	CARBON	680	5%	1/4W
R7433	1-249-400-11	CARBON	39	5%	1/4W

R7434	1-249-395-11	CARBON	15	5%	1/4W
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* A-1405-851-A F Board, Complete 32HQ100
* A-1405-512-A F Board, Complete 36HQ100

F Board, Common Parts

< CAPACITOR >

C500	1-126-969-11	ELECT	220UF	20.00%	50V
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REF.NO.	PART.NO.	DESCRIPTION	REMARK
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< CONNECTOR >

CN6300	Δ * 1-580-843-11	PIN, CONNECTOR (POWER)	
CN6301	1-695-915-11	TAB (CONTACT)	
CN6302	Δ * 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	

< DIODE >

D500	8-719-109-89	DIODE RD5.6ESB2	
D501	6-500-166-01	DIODE 1-59SRSGC-CC-01	
D502	8-719-109-89	DIODE RD5.6ESB2	

< FUSE >

F6300	Δ * 1-576-217-21	FUSE (H.B.C.) 5A/250V	
F6301	1-533-725-11	FUSE (H.B.C.)	

< IC >

IC500	8-742-180-30	HYB IC SRX3081-51(30)	
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< TRANSISTOR >

Q500	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q501	8-729-027-43	TRANSISTOR DTC114EKA-T146	

< RESISTOR >

R500	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R501	1-216-813-11	METAL CHIP	220	5%	1/10W
R502	1-216-809-11	METAL CHIP	100	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-813-11	METAL CHIP	220	5%	1/10W

R505	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R506	1-216-815-11	METAL CHIP	330	5%	1/10W

< SWITCH >

SW701	1-535-303-00	LEAD, JUMPER (5.0MM)			
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F Board, Variant parts 32HQ100

A501	NOT FITTED				
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< CAPACITOR >

C6300	NOT FITTED				
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< CONNECTOR >

CN500	* 1-564-507-11	PLUG, CONNECTOR 4P			
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< VARISTOR >

VD6300	Δ * 1-804-995-11	VARISTOR			
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Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

F MS3 H

REF.NO.	PART.NO.	DESCRIPTION	REMARK
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F Board, Variant parts 36HQ100

A501	4-205-711-01	HOLDER, LED	
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< CAPACITOR >

C6300	1-113-924-11	CERAMIC	0.0047UF	20.00%	250V
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< CONNECTOR >

CN500	* 1-564-519-11	PLUG, CONNECTOR 4P			
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< VARISTOR >

VD6300	Δ * 1-804-995-11	VARISTOR (MOV) (D.C.)			
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* A-1405-513-A MS3 Board, Complete

< CAPACITOR >

C705	1-164-156-11	CERAMIC CHIP	0.10UF	25V	
C706	1-163-021-91	CERAMIC CHIP	0.010UF	10.00%	50V
C708	1-124-779-00	ELECT CHIP	100UF	20.00%	16V
C709	1-107-826-11	CERAMIC CHIP	0.10UF	10.00%	16V
C710	1-162-970-11	CERAMIC CHIP	0.010UF	10.00%	25V

C712	1-164-156-11	CERAMIC CHIP	0.10UF	25V	
C713	1-126-390-11	ELECT CHIP	220UF	20.00%	6.3V
C714	1-107-826-11	CERAMIC CHIP	0.10UF	10.00%	16V
C715	1-107-826-11	CERAMIC CHIP	0.10UF	10.00%	16V
C716	1-107-826-11	CERAMIC CHIP	0.10UF	10.00%	16V

C717	1-126-390-11	ELECT CHIP	220UF	20.00%	6.3V
C719	1-162-970-11	CERAMIC CHIP	0.010UF	10.00%	25V
C720	1-162-970-11	CERAMIC CHIP	0.010UF	10.00%	25V

< CONNECTOR >

CN701	* 1-816-402-12	CONNECTOR, MEMORY STICK			
CN702	* 1-794-959-21	PIN, CONNECTOR (PWB, PRINT) 20P			

< DIODE >

D701	8-719-421-69	DIODE MA133			
D702	8-719-421-69	DIODE MA133			
D703	8-719-421-69	DIODE MA133			
D704	8-719-421-69	DIODE MA133			
D705	8-719-421-69	DIODE MA133			

D706	8-719-421-69	DIODE MA133			
D707	8-719-421-69	DIODE MA133			
D708	8-719-421-69	DIODE MA133			
D709	8-719-064-07	DIODE SML-310LTT86			
D710	8-719-083-58	DIODE UDZSTE-173.9B			

D711	8-719-083-58	DIODE UDZSTE-173.9B			
D712	8-719-421-69	DIODE MA133			
D713	8-719-421-69	DIODE MA133			
D714	8-719-421-69	DIODE MA133			
D715	8-719-421-69	DIODE MA133			

REF.NO.	PART.NO.	DESCRIPTION	REMARK
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D716	8-719-421-69	DIODE MA133	
D717	8-719-421-69	DIODE MA133	

< FERRITE BEAD >

FB701	1-414-921-11	FERRITE	00H
FB702	1-414-921-11	FERRITE	00H
FB704	1-414-921-11	FERRITE	00H

< IC >

IC701	8-759-639-86	IC SN65LVDS32DR	
IC702	6-701-763-11	IC D690LV017ACMX	
IC703	8-759-698-08	IC SN74CBTLV1G125DCKR	

< COIL >

L701	1-419-370-21	INDUCTOR	00H
L702	1-419-370-21	INDUCTOR	00H
L703	1-419-370-21	INDUCTOR	00H
L704	1-419-370-21	INDUCTOR	00H
L705	1-419-370-21	INDUCTOR	00H

< TRANSISTOR >

Q701	8-729-010-05	TRANSISTOR MSB709-RT1	
Q702	8-729-029-14	TRANSISTOR DTC144EKA-T106	
Q703	8-729-010-05	TRANSISTOR MSB709-RT1	

< RESISTOR >

R701	1-216-801-11	METAL CHIP	22	5%	1/10W
R702	1-216-801-11	METAL CHIP	22	5%	1/10W
R704	1-216-801-11	METAL CHIP	22	5%	1/10W
R705	1-218-692-11	METAL CHIP	1K	0.5%	1/10W
R706	1-216-809-11	METAL CHIP	100	5%	1/10W

R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-809-11	METAL CHIP	100	5%	1/10W
R709	1-216-809-11	METAL CHIP	100	5%	1/10W
R710	1-216-803-11	METAL CHIP	33	5%	1/10W
R721	1-216-821-11	METAL CHIP	1K	5%	1/10W

R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-216-833-11	METAL CHIP	10K	5%	1/10W
R725	1-216-845-11	METAL CHIP	100K	5%	1/10W
R726	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R728	1-216-864-11	SHORT CHIP	0		

R731	1-216-864-11	SHORT CHIP	0		
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* A-1405-514-A H Board, Complete

< CAPACITOR >

C800	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C801	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C802	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C803	1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C806	1-126-960-11	ELECT	1UF	20.00%	50V

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

H

REF.NO.	PART.NO.	DESCRIPTION	REMARK
C807	1-126-960-11	ELECT	10F 20.00% 50V
C808	1-102-106-00	CERAMIC	100PF 10.00% 50V
C809	1-102-106-00	CERAMIC	100PF 10.00% 50V
C811	1-102-074-00	CERAMIC	0.001UF 10.00% 50V
C812	1-102-074-00	CERAMIC	0.001UF 10.00% 50V

< CONNECTOR >

CH800	1-779-947-11	TERMINAL BLOCK, S
CH807	* 1-564-526-11	PLUG, CONNECTOR 11P
CH809	* 1-564-522-11	PLUG, CONNECTOR 7P

< DIODE >

D802	8-719-929-15	DIODE HXS9.1MB2
D803	8-719-929-15	DIODE HXS9.1MB2
D804	8-719-109-97	DIODE RD6.8ESB2
D805	8-719-109-97	DIODE RD6.8ESB2

< SOCKET >

J800	1-750-264-11	JACK
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< COIL >

L800	1-535-303-00	LEAD, JUMPER (5.0MM)
L801	1-535-303-00	LEAD, JUMPER (5.0MM)
L802	1-408-603-31	INDUCTOR 10UH
L803	1-408-603-31	INDUCTOR 10UH
L804	1-410-119-11	INDUCTOR 1MH

< RESISTOR >

R803	1-249-406-11	CARBON	120	5%	1/4W
R804	1-249-406-11	CARBON	120	5%	1/4W
R805	1-247-895-91	CARBON	470K	5%	1/4W
R806	1-247-895-91	CARBON	470K	5%	1/4W
R809	1-247-895-91	CARBON	470K	5%	1/4W
R810	1-247-895-91	CARBON	470K	5%	1/4W
R815	1-249-406-11	CARBON	120	5%	1/4W
R816	1-249-406-11	CARBON	120	5%	1/4W
R817	1-247-807-31	CARBON	100	5%	1/4W
R818	1-247-807-31	CARBON	100	5%	1/4W

< SWITCH >

S800	1-762-816-11	SWITCH, TACTILE
S801	1-762-816-11	SWITCH, TACTILE
S802	1-762-816-11	SWITCH, TACTILE

REF.NO.	PART.NO.	DESCRIPTION	REMARK
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MISCELLANEOUS

Δ 1-571-433-21	SWITCH, PUSH (AC POWER)
1-825-177-11	LOUDSPEAKER (4.2X24CM)
1-542-437-11	SPEAKER (2CM)
Δ 1-825-177-11	LOUDSPEAKER (10CM)
1-424-855-11	COIL, CHOKE 29MH
1-825-213-21	LOUDSPEAKER (10CM)
8-598-536-20	FRONT END BTF-EF412 (KV-32/36HQ100B)
8-598-534-10	FRONT END BTF-EA412 (KV-32/36HQ100E/K)

1-452-896-11	COIL, NA ROTATION (RT200)
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1-452-896-11	COIL, NA ROTATION (RT200)
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1-452-896-11	COIL, NA ROTATION (RT200)
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1-452-896-11	COIL, NA ROTATION (RT200)
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1-452-094-11	MAGNET, ROTATABLE DISK; 15MM
1-452-032-00	MAGNET, DISK; 10MM

ACCESSORIES AND PACKAGING MATERIALS

*4-094-059-01	CUSHION UPPER (KV-32HQ100B/E/K)
*4-095-022-01	CUSHION UPPER (KV-36HQ100B/E/K)
*4-094-060-01	CUSHION LOWER (KV-32HQ100B/E/K)
*4-095-023-01	CUSHION LOWER (KV-36HQ100B/E/K)
*4-094-058-01	INDIVIDUAL CARTON (KV-32HQ100B/E/K)
*4-095-024-01	INDIVIDUAL CARTON (KV-36HQ100B/E/K)
*4-206-555-11	BAG, PROTECTION (KV-32HQ100B/E/K)
*4-055-672-11	BAG, PROTECTION (KV-36HQ100B/E/K)

4-095-835-13	INSTRUCTION MANUAL (GERMAN/TURKISH/GREEK) (KV-32/36HQ100B)
4-095-835-23	INSTRUCTION MANUAL (ITALIAN) (KV-32/36HQ100B)
4-095-835-33	INSTRUCTION MANUAL (NORWEGIAN/PORTUGUESE/ SWEDISH/FINNISH/DANISH/SPANISH) (KV-32/36HQ100B)

4-095-835-43	INSTRUCTION MANUAL (GERMAN/ITALIAN/FRENCH/ DUTCH) (KV-32/36HQ100B)
4-095-835-53	INSTRUCTION MANUAL (ENGLISH) (KV-32/36HQ100B)
4-095-835-63	INSTRUCTION MANUAL (BULGARIAN/CZECH/RUSSIAN/ ENGLISH/POLISH) (KV-32/36HQ100B)

REMOTE COMMANDER

1-478-159-11	REMOTE COMMANDER (RM-940)
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TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

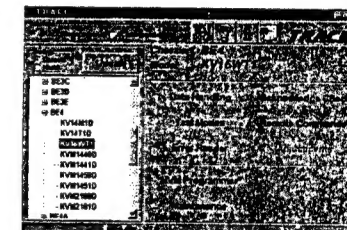
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers:	TRACE Starter Kit (TRACE interface + software):	9-948-320-70
	TRACE Software (for users of the I ² C Link interface):	9-948-340-80
	TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

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Sony UK
Service Promotions Dept.

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